SCHNEIDER ELECTRONICS GMBH-GERMANY

Service Manual

Model No.: 20M301

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This manual is the latest at the time of printing, and does not include the modification which may be made after printing, by the constant improvement of product.

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1. CAUTION

CAUTION:
Use of controls, adjustments or procedures other than those specified herein may result in hazardous radiation exposure.

CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN.

CAUTION: TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lighting flash with arrowhead symbol, with an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to the person.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO REDUCE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

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IMPORTANT SAFETY INSTRUCTIONS

CAUTION:

Read all of these instructions. Save these instructions for later use. Follow all Warnings and Instructions marked on the audio equipment.

1. Read Instructions- All the safety and operating instructions should be read before the productis operated.
2. Retain Instructions- The safety and operating instructions should be retained for future reference.
3. Heed Warnings- All warnings on the product and in the operating instructions should be adhered to.
4. Follow Instructions- All operating and use instructions should be followed.

FOR YOUR PERSONAL SAFETY

1. When the power cord or plug is damaged or frayed, unplug this television set from the wall outlet and refer servicing to qualified service personnel.
2. Do not overload wall outlets and extension cords as this can result in fire or electric shock.
3. Do not allow anything to rest on or roll over the power cord, and do not place the TV where power cord is subject to traffic or abuse. This may result in a shock or fire hazard.
4. Do not attempt to service this television set yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
5. Never push objects of any kind into this television set through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the television set.
6. If the television set has been dropped or the cabinet has been damaged, unplug this television set from the wall outlet and refer servicing to qualified service personnel.
7. If liquid has been spilled into the television set, unplug this television set from the wall outlet and refer servicing to qualified service personnel.
8. Do not subject your television set to impact of any kind. Be particularly careful not to damage the picture tube surface.
9. Unplug this television set from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

10.1. Do not place this television set on an unstable cart, stand, or table. The television set may fall, causing serious injury to a child or an adult, and serious damage to the appliance. Use only with a cart or stand recommended by the manufacturer, or sold with the television set. Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturer.

10.2. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

Connector

Screen	• Antenna Input • BNC IEC • Others• •
	Video Terminal
	• VGA Input• Type• D-15 Pins Quantity• •1• • VGA Output• Type• Quantity• • • •
	• •DVI Input Type• DVI-I 29Pins Quantity• 1 • •
	• YUV Input• •With Audio • •• • RCA • •BNC Quantity• 1 • •
	• Y, Cr, Cb Input(• RCA • BNC Quantity• 1, Remarks• Input via Y in YUV• •
	• •S-Video Input Quantity• (• • S-Video Output• Quantity:)
	• SCART• • Full SCART • Video Input • •YUV Input • •S-Video • •RGB• •Video Output• •
	• Others Video or • AV• •Output or Input• •
	Audio Connector
	• Audio Input• • RCA • Others• • 3.5 • • Audio Output 5.1 •
	• Audio OutputL/R• •• RCA • Others• • • Bass Output• Audio Jack• •
	• Audio• RCA• • • Audio digital optical • Speaker Output

Packing

Unit Size(w• h• d, mm)	448×230×385mm	Net Weight(kg)	5.5kg
Packing Size(w• h• d, mm)	537x287x476mm	Gross Weight(kg)	8kg

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3. BOM LIST

Item No.	Description	Quantity	Designator	Remarks
08-L2026S-ANY	ASS'Y - ANOLOG BD	1		
09-LL4148-ATX	SMD. SWITCHING DIODE LL4148	1	D5501	
09-LL4148-ATX	SMD. SWITCHING DIODE LL4148	1	D7	
09-LL4148-ATX	SMD. SWITCHING DIODE LL4148	1	D5503	
09-LL4148-ATX	SMD. SWITCHING DIODE LL4148	1	D5504	
09-RLZ5B1-DTX	SMD. ZENER DIODE RLZ5.1B	1	D1	
09-RLZ5B1-DTX	SMD. ZENER DIODE RLZ5.1B	1	D11	
12-BC847B-0BX	NPN SMD. TRANSISTOR BC847B (SOT-23)	1	Q10	
12-BC847B-0BX	NPN SMD. TRANSISTOR BC847B (SOT-23)	1	Q12	
12-BC847B-0BX	NPN SMD. TRANSISTOR BC847B (SOT-23)	1	Q2	
12-BC847B-0BX	NPN SMD. TRANSISTOR BC847B (SOT-23)	1	Q3	
12-BC847B-0BX	NPN SMD. TRANSISTOR BC847B (SOT-23)	1	Q4	
12-BC847B-0BX	NPN SMD. TRANSISTOR BC847B (SOT-23)	1	Q8	
12-BC847C-0BX	SMD.TRANSISTOR BC847C	1	Q701	
12-BC847C-0BX	SMD.TRANSISTOR BC847C	1	Q702	
12-BC847C-0BX	SMD.TRANSISTOR BC847C	1	Q703	
12-BC847C-0BX	SMD.TRANSISTOR BC847C	1	Q704	
12-BC847C-0BX	SMD.TRANSISTOR BC847C	1	Q705	
12-BC847C-0BX	SMD.TRANSISTOR BC847C	1	Q711	
12-BC847C-0BX	SMD.TRANSISTOR BC847C	1	Q5511	
12-BC847C-0BX	SMD.TRANSISTOR BC847C	1	Q5513	
12-BC847C-0BX	SMD.TRANSISTOR BC847C	1	Q5515	
12-BC857C-0BX	SMD.TRANSISTOR BC857C	1	Q5	
12-BC857C-0BX	SMD.TRANSISTOR BC857C	1	Q7	
12-BC857C-0BX	SMD.TRANSISTOR BC857C	1	Q9	
13-K6T400-70B	3.3V 4M CMOS SRAM K6T4008V1C-GB70	1	IC703	
13-M24C32-MNB	IC M24C32-WMN6(SO8)	1	IC704	
13-M29W40-0NB	IC M29W400BB/DB(TSOP48-TS)	1	IC702	
13-MSP341-1AB	IC MSP3411G(PLQFP64)	1	IC5502	
13-TEA641-5CB	IC TEA6415CD (SO20)	1	IC5501	
13-VCT383-4AB	IC VCT3834A	1	IC701	
19-B80000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	R11	
19-B80000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	R53A	
19-B80000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	R54	
19-B80000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	R5539	
19-B80000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	R751	
19-B80000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	C5570A	
28-B80101-JCX	SMD CAP. 100 PF 50V C 0805	1	C5571A	

Item No.	Description	Quantity	Designator	Remarks
19-BB0100-JTX	RES. SMD 10 OHM 1/10W +/-5%	1	R10	
19-BB0100-JTX	RES. SMD 10 OHM 1/10W +/-5%	1	R22	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	R19	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	R27	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	R34	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	R5514	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	R5516	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	R5531	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	R5532	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	R5577	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	R5578	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	R735	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	R792	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	R793	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	R794	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	R795	
19-BB0102-JTX	SMD. RES 1k OHM 1/10W +/-5%	1	R1001	
19-BB0102-JTX	SMD. RES 1k OHM 1/10W +/-5%	1	R20	
19-BB0102-JTX	SMD. RES 1k OHM 1/10W +/-5%	1	R28	
19-BB0102-JTX	SMD. RES 1k OHM 1/10W +/-5%	1	R35	
19-BB0102-JTX	SMD. RES 1k OHM 1/10W +/-5%	1	R39	
19-BB0102-JTX	SMD. RES 1k OHM 1/10W +/-5%	1	R5552	
19-BB0102-JTX	SMD. RES 1k OHM 1/10W +/-5%	1	R62	
19-BB0102-JTX	SMD. RES 1k OHM 1/10W +/-5%	1	R69	
19-BB0102-JTX	SMD. RES 1k OHM 1/10W +/-5%	1	R7	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R1002	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	R1003	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R43	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R5522A	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R5523A	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R5526A	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R5527A	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R5551	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R5561	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R57	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R701	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R702	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R714	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R715	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R725	

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Item No.	Description	Quantity	Designator	Remarks
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R749	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R762	
19-BB0122-JTX	SMD. RES 1.2k OHM 1/10W +/-5%	1	R750	
19-BB0152-JTX	SMD. RES 1.5k OHM 1/10W +/-5%	1	R5839	
19-BB0181-FTX	SMD. RES 180 OHM 1/8W +/-1% 0805	1	R16	
19-BB0181-FTX	SMD. RES 180 OHM 1/8W +/-1% 0805	1	R24	
19-BB0181-FTX	SMD. RES 180 OHM 1/8W +/-1% 0805	1	R31	
19-BB0183-JTX	SMD. RES 18k OHM 1/10W +/-5%	1	R12	
19-BB0183-JTX	SMD. RES 18k OHM 1/10W +/-5%	1	R42	
19-BB0221-JTX	SMD. RES 220 OHM 1/10W +/-5% 0805	1	R1004	
19-BB0221-JTX	SMD. RES 220 OHM 1/10W +/-5% 0805	1	R1005	
19-BB0221-JTX	SMD. RES 220 OHM 1/10W +/-5% 0805	1	R5522	
19-BB0221-JTX	SMD. RES 220 OHM 1/10W +/-5% 0805	1	R5523	
19-BB0221-JTX	SMD. RES 220 OHM 1/10W +/-5% 0805	1	R5550	
19-BB0221-JTX	SMD. RES 220 OHM 1/10W +/-5% 0805	1	R5560	
19-BB0221-JTX	SMD. RES 220 OHM 1/10W +/-5% 0805	1	R5838	
19-BB0223-JTX	SMD. RES 22k OHM 1/10W +/-5%	1	R17	
19-BB0223-JTX	SMD. RES 22k OHM 1/10W +/-5%	1	R25	
19-BB0223-JTX	SMD. RES 22k OHM 1/10W +/-5%	1	R32	
19-BB0223-JTX	SMD. RES 22k OHM 1/10W +/-5%	1	R703	
19-BB0223-JTX	SMD. RES 22k OHM 1/10W +/-5%	1	R717	
19-BB0223-JTX	SMD. RES 22k OHM 1/10W +/-5%	1	R737	
19-BB0223-JTX	SMD. RES 22k OHM 1/10W +/-5%	1	R744	
19-BB0241-JTX	RES. SMD 240 OHM 1/10W +/-5%	1	R70	
19-BB0271-JTX	SMD. RES 270 OHM 1/10W +/-5%	1	R5515	
19-BB0271-JTX	SMD. RES 270 OHM 1/10W +/-5%	1	R5517	
19-BB0271-JTX	SMD. RES 270 OHM 1/10W +/-5%	1	R5526	
19-BB0271-JTX	SMD. RES 270 OHM 1/10W +/-5%	1	R5527	
19-BB0271-JTX	SMD. RES 270 OHM 1/10W +/-5%	1	R9	
19-BB0332-JTX	SMD. RES 3.3k OHM 1/10W +/-5%	1	R63	
19-BB0332-JTX	SMD. RES 3.3k OHM 1/10W +/-5%	1	R64	
19-BB0332-JTX	SMD. RES 3.3k OHM 1/10W +/-5%	1	R65	
19-BB0333-JTX	SMD. RES 33k OHM 1/10W +/-5%	1	R706	
19-BB0361-FTX	SMD. RES 360 OHM 1/8W +/-1% 0805	1	R18	
19-BB0361-FTX	SMD. RES 360 OHM 1/8W +/-1% 0805	1	R26	
19-BB0361-FTX	SMD. RES 360 OHM 1/8W +/-1% 0805	1	R33	
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R44	
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R6	
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R66	
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R726	

Item No.	Description	Quantity	Designator	Remarks
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R727	
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R730	
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R733	
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R763	
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R764A	
19-BB0473-JTX	SMD. RES 47k OHM 1/10W +/-5% 0805	1	R705	
19-BB0473-JTX	SMD. RES 47k OHM 1/10W +/-5% 0805	1	R728	
19-BB0473-JTX	SMD. RES 47k OHM 1/10W +/-5% 0805	1	R729	
19-BB0473-JTX	SMD. RES 47k OHM 1/10W +/-5% 0805	1	R731	
19-BB0473-JTX	SMD. RES 47k OHM 1/10W +/-5% 0805	1	R732	
19-BB0562-JTX	SMD. RES 5.6k OHM 1/10W +/-5%	1	R13	
19-BB0562-JTX	SMD. RES 5.6k OHM 1/10W +/-5%	1	R8	
19-BB0682-JTX	SMD. RES 6.8k OHM 1/10W +/-5%	1	R37	
19-BB0682-JTX	SMD. RES 6.8k OHM 1/10W +/-5%	1	R38	
19-BB0682-JTX	SMD. RES 6.8k OHM 1/10W +/-5%	1	R739	
19-BB0683-JTX	SMD. RES 68k OHM 1/10W +/-5%	1	R718	
19-BB0683-JTX	SMD. RES 68k OHM 1/10W +/-5%	1	R738	
19-BB0750-JTX	SMD. RES 75 OHM 1/10W +/-5%	1	R21	
19-BB0750-JTX	SMD. RES 75 OHM 1/10W +/-5%	1	R29	
19-BB0750-JTX	SMD. RES 75 OHM 1/10W +/-5%	1	R36	
19-BB0750-JTX	SMD. RES 75 OHM 1/10W +/-5%	1	R5533	
19-BB0750-JTX	SMD. RES 75 OHM 1/10W +/-5%	1	R5540	
19-BB0750-JTX	SMD. RES 75 OHM 1/10W +/-5%	1	R5554	
19-BB0750-JTX	SMD. RES 75 OHM 1/10W +/-5%	1	R5562	
19-BB0750-JTX	SMD. RES 75 OHM 1/10W +/-5%	1	R5563	
19-BB0750-JTX	SMD. RES 75 OHM 1/10W +/-5%	1	R5570	
19-BB0750-JTX	SMD. RES 75 OHM 1/10W +/-5%	1	R5571	
19-BB0750-JTX	SMD. RES 75 OHM 1/10W +/-5%	1	R5572	
19-BB0750-JTX	SMD. RES 75 OHM 1/10W +/-5%	1	R5573	
19-BB0820-FTX	SMD. RES 82 OHM 1/10W +/-1% 0805	1	R15	
19-BB0820-FTX	SMD. RES 82 OHM 1/10W +/-1% 0805	1	R23	
19-BB0820-FTX	SMD. RES 82 OHM 1/10W +/-1% 0805	1	R30	
19-CC0000-JTX	CHIP RESISTOR	1	BR702	
19-CC0000-JTX	CHIP RESISTOR	1	BR711	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP1	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP2	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP3	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP4	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP5	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP6	

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Item No.	Description	Quantity	Designator	Remarks
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP7	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP8	
25-BBB101-M1X	CAP. ELEC 100UF 10V +/-20%	1	C5523	
25-BBB101-M1X	CAP. ELEC 100UF 10V +/-20%	1	C5524	
25-BBB101-M1X	CAP. ELEC 100UF 10V +/-20%	1	C5579	
25-BBB101-M1X	CAP. ELEC 100UF 10V +/-20%	1	C714	
25-BCB470-M1X	CAP. ELEC 47 UF 16V +/-20%	1	C750	
25-BCB470-M1X	CAP. ELEC 47 UF 16V +/-20%	1	C753	
25-BCB470-M1X	CAP. ELEC 47 UF 16V +/-20%	1	C756	
25-BCB470-M1X	CAP. ELEC 47 UF 16V +/-20%	1	C762	
25-BCB470-M1X	CAP. ELEC 47 UF 16V +/-20%	1	C765	
25-BCB470-M1X	CAP. ELEC 47 UF 16V +/-20%	1	C774	
25-BCB471-M1X	CAP. ELEC 470 UF 16V +/-20%	1	C5520	
25-BFB109-M1X	CAP. ELEC 1 UF 50V +/-20%	1	C716	
25-BFB229-M1X	CAP. ELEC 2.2 UF 50V +/-20%	1	C5514	
25-BFB229-M1X	CAP. ELEC 2.2 UF 50V +/-20%	1	C5516	
25-BFB339-M1X	CAP. ELEC 3.3 UF 50V +/-20%	1	C5526	
25-HCB100-M1X	CAP. ELEC 10 UF 16V +/-20%	1	C5501	
25-HCB100-M1X	CAP. ELEC 10 UF 16V +/-20%	1	C5525	
25-HCB100-M1X	CAP. ELEC 10 UF 16V +/-20%	1	C5550	
25-HCB100-M1X	CAP. ELEC 10 UF 16V +/-20%	1	C5553	
25-HCB100-M1X	CAP. ELEC 10 UF 16V +/-20%	1	C701	
25-HCB100-M1X	CAP. ELEC 10 UF 16V +/-20%	1	C710	
25-HCB470-M1X	CAP. ELEC 47 UF 16V +/-20%	1	C759	
28-BB0101-JCX	SMD CAP. 100 PF 50V C 0805	1	C3	
28-BB0101-JCX	SMD CAP. 100 PF 50V C 0805	1	C5	
28-BB0101-JCX	SMD CAP. 100 PF 50V C 0805	1	C5570	
28-BB0101-JCX	SMD CAP. 100 PF 50V C 0805	1	C5574	
28-BB0101-JCX	SMD CAP. 100 PF 50V C 0805	1	C6	
28-BB0102-KBX	SMD CAP. 0.001UF 50V B 0805	1	C5504	
28-BB0102-KBX	SMD CAP. 0.001UF 50V B 0805	1	C5505	
28-BB0102-KBX	SMD CAP. 0.001UF 50V B 0805	1	C704	
28-BB0102-KBX	SMD CAP. 0.001UF 50V B 0805	1	C720	
28-BB0102-KBX	SMD CAP. 0.001UF 50V B 0805	1	C731	
28-BB0102-KBX	SMD CAP. 0.001UF 50V B 0805	1	C732	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C2	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C5502	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C5527	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C5551	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C5554	

Item No.	Description	Quantity	Designator	Remarks
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C5578	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C702	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C703	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C713	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C746	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C747	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C751	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C754	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C757	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C760	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C763	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C766	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C769	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C772	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C775	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C5846	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C5847	
28-BB0222-KBX	SMD. CAP 2200PF 50V +/-10%	1	C5536	
28-BB0222-KBX	SMD. CAP 2200PF 50V +/-10%	1	C5538	
28-BB0222-KBX	SMD. CAP 2200PF 50V +/-10%	1	C5544	
28-BB0222-KBX	SMD. CAP 2200PF 50V +/-10%	1	C5546	
28-BB0222-KBX	SMD. CAP 2200PF 50V +/-10%	1	C712	
28-BB0222-KBX	SMD. CAP 2200PF 50V +/-10%	1	C752	
28-BB0222-KBX	SMD. CAP 2200PF 50V +/-10%	1	C755	
28-BB0222-KBX	SMD. CAP 2200PF 50V +/-10%	1	C758	
28-BB0222-KBX	SMD. CAP 2200PF 50V +/-10%	1	C761	
28-BB0222-KBX	SMD. CAP 2200PF 50V +/-10%	1	C764	
28-BB0222-KBX	SMD. CAP 2200PF 50V +/-10%	1	C767	
28-BB0222-KBX	SMD. CAP 2200PF 50V +/-10%	1	C770	
28-BB0222-KBX	SMD. CAP 2200PF 50V +/-10%	1	C773	
28-BB0222-KBX	SMD. CAP 2200PF 50V +/-10%	1	C776	
28-BB0224-ZFX	SMD. CAP 0.22UF 50V +80%/-20% 0805	1	C5533	
28-BB0224-ZFX	SMD. CAP 0.22UF 50V +80%/-20% 0805	1	C5842	
28-BB0224-ZFX	SMD. CAP 0.22UF 50V +80%/-20% 0805	1	C5844	
28-BB0224-ZFX	SMD. CAP 0.22UF 50V +80%/-20% 0805	1	C5843	
28-BB0224-ZFX	SMD. CAP 0.22UF 50V +80%/-20% 0805	1	C5573	
28-BB0334-ZFX	SMD. CAP 0.33UF 50V +80%/-20%	1	C5535	
28-BB0334-ZFX	SMD. CAP 0.33UF 50V +80%/-20%	1	C5537	
28-BB0334-ZFX	SMD. CAP 0.33UF 50V +80%/-20%	1	C5543	
28-BB0334-ZFX	SMD. CAP 0.33UF 50V +80%/-20%	1	C5545	

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Item No.	Description	Quantity	Designator	Remarks
28-BB0339-JCX	SMD. CAP 3.3 pF 50V +/-5%	1	C5557	
28-BB0339-JCX	SMD. CAP 3.3 pF 50V +/-5%	1	C5558	
28-BB0472-KBX	SMD. CAP 4700PF 50V +/-10%	1	C1	
28-BB0473-ZFX	SMD. CAP 0.047UF 50V +80%-20%	1	C711	
28-BB0560-JCX	SMD. CAP 56PF 50V +/-5%	1	C5556	
28-BB0560-JCX	SMD. CAP 56PF 50V +/-5%	1	C5560	
28-BB0560-JCX	SMD. CAP 56PF 50V +/-5%	1	C5561	
28-BB0683-ZFX	SMD. CAP 0.068UF 50V +80%-20%	1	C740	
28-BB0683-ZFX	SMD. CAP 0.068UF 50V +80%-20%	1	C741	
28-CD0684-KBX	SMD.CAP 0.68UF 25V +/-10%	1	C722	
28-DC0107-MTX	TANTALUM CAP. 100 UF 16VDC +/-20%	1	C788	
28-XC0226-MTX	SMD. CAP 22 UF 16V +/-20%	1	C742	
28-XC0475-MTX	TANTALUM CAP. 4.7 UF 16V +/-20% B	1	C745	
28-XC0475-MTX	TANTALUM CAP. 4.7 UF 16V +/-20% B	1	C768	
28-XC0475-MTX	TANTALUM CAP. 4.7 UF 16V +/-20% B	1	C771	
33-DLL100-KTX	SMD. COIL 10 UH +/-10% 3225	1	L5501	
33-DLL100-KTX	SMD. COIL 10 UH +/-10% 3225	1	L5504	
33-DLL100-KTX	SMD. COIL 10 UH +/-10% 3225	1	L5502	
33-DLL100-KTX	SMD. COIL 10 UH +/-10% 3225	1	L702	
33-DLL100-KTX	SMD. COIL 10 UH +/-10% 3225	1	L1	
33-DLL100-KTX	SMD. COIL 10 UH +/-10% 3225	1	L5831	
33-ELN102-NTX	SMD.COLL CBG201209U 102B	1	L5570	
33-ELN102-NTX	SMD.COLL CBG201209U 102B	1	L5571	
33-ELN102-NTX	SMD.COLL CBG201209U 102B	1	L5572	
33-ELN102-NTX	SMD.COLL CBG201209U 102B	1	L5573	
33-ELN102-NTX	SMD.COLL CBG201209U 102B	1	L5574	
33-ELN102-NTX	SMD.COLL CBG201209U 102B	1	L5575	
33-ELN102-NTX	SMD.COLL CBG201209U 102B	1	L5576	
33-ELN102-NTX	SMD.COLL CBG201209U 102B	1	L5577	
33-ELN102-NTX	SMD.COLL CBG201209U 102B	1	L5578	
33-ELN102-NTX	SMD.COLL CBG201209U 102B	1	L5579	
33-ELN102-NTX	SMD.COLL CBG201209U 102B	1	L5580	
33-ELN102-NTX	SMD.COLL CBG201209U 102B	1	Z710	
33-ELN102-NTX	SMD.COLL CBG201209U 102B	1	Z711	
33-ELN102-NTX	SMD.COLL CBG201209U 102B	1	Z712	
33-ELN102-NTX	SMD.COLL CBG201209U 102B	1	Z713	
33-ELN102-NTX	SMD.COLL CBG201209U 102B	1	Z714	
33-ELN102-NTX	SMD.COLL CBG201209U 102B	1	Z716	
33-ELN102-NTX	SMD.COLL CBG201209U 102B	1	Z715	
33-ELN102-NTX	SMD.COLL CBG201209U 102B	1	Z717	

Item No.	Description	Quantity	Designator	Remarks
33-ELN102-NTX	SMD.COLL CBG201209U 102B	1	Z718	
33-ELN102-NTX	SMD.COLL CBG201209U 102B	1	Z5501	
33-ELN102-NTX	SMD.COLL CBG201209U 102B	1	Z719	
33-ELN102-NTX	SMD.COLL CBG201209U 102B	1	Z720	
45-OSC18M-4Y2	CRYSTAL 18.432MHz (CL=12pF)	1	Z5502	
45-OSC20M-2Y0	CRYSTAL 20.25MHZ	1	Z202	
46-35199W-05X	CONN.PH-5A 5PIN PITCH=2.0MM	1	P1002	
46-35199W-05X	CONN.PH-5A 5PIN PITCH=2.0MM	1	P5802	
46-35199W-08X	CONN.PH-8A 8PIN PITCH=2.0MM	1	P1001	
47-SCA001-XX0	SCART SOCKET 21 PINS SS101-P	1	X5510	
47-340971-50X	VGA SOCKET	1	S601	
40-LD1526-SAD	P.C.B. SIMULATE BD	1		
46-39375H-10X	HS 10P 2468#26 150MM PH-10Y*2	1		• • • P14••• • • • P5540 •
46-39371H-05X01	HS 5P 2468#26 180MM	1		• • • P5802• • • • F401• •
46-35199W-10X	CONN. PH-10 10PIN PITCH=2.0mm	1	P5540	
12-BC847B-08X	NPN SMD. TRANSISTOR BC847B (SOT-23)	1	Q11	
19-BB0102-JTX	SMD. RES 1k OHM 1/10W +/-5%	1	R58	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R53	
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R61	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C12	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C13	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C14	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C15	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C16	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C17	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C18	
28-BB0102-KBX	SMD CAP. 0.001UF 50V B 0805	1	C7	
28-BB0102-KBX	SMD CAP. 0.001UF 50V B 0805	1	C8	
28-BB0102-KBX	SMD CAP. 0.001UF 50V B 0805	1	C9	
28-BB0102-KBX	SMD CAP. 0.001UF 50V B 0805	1	C10	
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	R5842	
12-BC847B-08X	NPN SMD. TRANSISTOR BC847B (SOT-23)	1	Q6	
19-BB0223-JTX	SMD. RES 22k OHM 1/10W +/-5%	1	R5840	
28-DC0107-MTX	TANTALUM CAP. 100 UF 16VDC +/-20%	1	C789	
46-39378H-09X	HS 9P 2468#26 200MM PH-9Y/SAN-9Y	1		• • • P5803• • • • F403• •
28-BB0221-JCX	SMD. CAP 220 PF 50V +/-5%	1	C5518	
46-35199W-08X	CONN.PH-8A 8PIN PITCH=2.0MM	1	S5504	
46-35199W-05X	CONN.PH-5A 5PIN PITCH=2.0MM	1	P1003	
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	R5541	
19-BB0222-JTX	SMD. RES 2.2k OHM 1/10W +/-5%	1	R5528	

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Item No.	Description	Quantity	Designator	Remarks
28-BB0472-KBX	SMD. CAP 4700PF 50V +/-10%	1	C5552	
28-BB0160-JCX	SMD. CAP 16 PF 50V +/-5%	1	C748	
28-BB0160-JCX	SMD. CAP 16 PF 50V +/-5%	1	C749	
25-BCB220-M1X	CAP. ELEC 22 UF 16V +/-20%	1	C5503	
09-LL4148-ATX	SMD. SWITCHING DIODE LL4148	1		• • • • • • C742• • • • • • • • • • • • • • • •
09-LL4148-ATX	SMD. SWITCHING DIODE LL4148	1		• • • • • • C5508••••••• • • • R5840••••••••• • •
41-BF0080-3BB	WIRE UL 1007 #24 80MM ORG	1		• • • S5504• 4• • P1003• 3• •
41-BF0080-3BB	WIRE UL 1007 #24 80MM ORG	1		• • • S5504• 5• • P1003• 2• •
28-DC0107-MTX	TANTALUM CAP. 100 UF 16VDC +/-20%	1	C4	
19-BB0681-JTX	SMD. RES 680 OHM 1/10W +/-5%	1	R5547	
19-BB0681-JTX	SMD. RES 680 OHM 1/10W +/-5%	1	R5548	
19-BB0750-JTX	SMD. RES 75 OHM 1/10W +/-5%	1	R5568	
25-HCB220-M1X	CAP. ELEC 22 UF 16V +/-20%	1	C5584	
19-BB0823-JTX	SMD. RES 82k OHM 1/10W +/-5%	1	R5567	
19-BB0104-JTX	SMD. RES 100k OHM 1/10W +/-5% 0805	1	R5566	
19-BB0222-JTX	SMD. RES 2.2k OHM 1/10W +/-5%	1	R60	
28-BB0474-ZFX	SMD. CAP 0.47UF 50V +80%-20%	1	C733	
28-BB0474-ZFX	SMD. CAP 0.47UF 50V +80%-20%	1	C734	
28-BB0474-ZFX	SMD. CAP 0.47UF 50V +80%-20%	1	C735	
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R5575	
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R5576	
28-XC0475-MTX	TANTALUM CAP. 4.7 UF 16V +/-20% B	1	C5571	
08-L2026S-PWY	ASS'Y - POWER BD	1		
09-LL4148-ATX	SMD. SWITCHING DIODE LL4148	1	D3	
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	D2	
10-1N4002-EBX	DIODE 1N4002 (RECTIFIER)	1	D801	
10-1N4002-EBX	DIODE 1N4002 (RECTIFIER)	1	D803	
10-1N4002-EBX	DIODE 1N4002 (RECTIFIER)	1	D804	
12-BC847C-08X	SMD.TRANSISTOR BC847C	1	Q402	
13-PQ09RD-11S	IC PQ09RD11 (9V LL REGULATOR)	1	IC801	
13-L7805C-VAP	IC L7805CV 1.5A (REGULATOR)	1	IC802	
13-LD1117-33B	IC LD1117 3.3V	1	IC804	
13-LD1117-33B	IC LD1117 3.3V	1	IC803	
13-TPA151-7NP	IC TPA1517NE	1	U401	
18-EF0109-JGX	RES. FUS. 1 OHM 1W +/-5% (LS)	1	R811	
19-BB0202-JTX	SMD. RES 2k OHM 1/10W +/-5% 0805	1	R401	
25-BBB101-M1X	CAP. ELEC 100UF 10V +/-20%	1	C811	
25-BCB221-M1X	CAP. ELEC 220 UF 16V +/-20%	1	C403	
25-BCB221-M1X	CAP. ELEC 220 UF 16V +/-20%	1	C404	
25-BCB221-M1X	CAP. ELEC 220 UF 16V +/-20%	1	C802	

Item No.	Description	Quantity	Designator	Remarks
25-BCB221-M1X	CAP. ELEC 220 UF 16V +/-20%	1	C806	
25-BCB221-M1X	CAP. ELEC 220 UF 16V +/-20%	1	C808	
25-BCB470-M1X	CAP. ELEC 47 UF 16V +/-20%	1	C816	
25-BCB470-M1X	CAP. ELEC 47 UF 16V +/-20%	1	C821	
25-BCB471-M1X	CAP. ELEC 470 UF 16V +/-20%	1	C801	
28-BB0103-ZFX	SMD. CAP 10NF 50V +80%-20%	1	C818	
28-BB0103-ZFX	SMD. CAP 10NF 50V +80%-20%	1	C803	
28-BB0103-ZFX	SMD. CAP 10NF 50V +80%-20%	1	C805	
28-BB0103-ZFX	SMD. CAP 10NF 50V +80%-20%	1	C807	
28-BB0103-ZFX	SMD. CAP 10NF 50V +80%-20%	1	C810	
25-BCB471-M1X	CAP. ELEC 470 UF 16V +/-20%	1	C819	
28-BB0103-ZFX	SMD. CAP 10NF 50V +80%-20%	1	C820	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C812	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C817	
28-DC0476-MTX	TANTALUM CAP. 47UF 16VDC +/-20% 7343	1	C804	
46-35199W-05X	CONN.PH-5A 5PIN PITCH=2.0MM	1	F401	
46-35199W-09X	CONN.PH-9A 9PIN PITCH=2.0MM	1	F403	
67-H36880-0A9	HEAT SINK	2		FOR IC801.FOR IC802
46-33333W-02X	CONN.VH-2A 90 ANGLE PITCH=3.96	1	P1004	
09-LL4148-ATX	SMD. SWITCHING DIODE LL4148	1	D6	
09-LL4148-ATX	SMD. SWITCHING DIODE LL4148	1	D7	
12-BC857A-0BX	SMD TRANSISTOR BC857A (PNP)	1	Q1	
19-BB0104-JTX	SMD. RES 100k OHM 1/10W +/-5% 0805	1	R6	
25-BCB471-M1X	CAP. ELEC 470 UF 16V +/-20%	1	C809	
25-BCB471-M1X	CAP. ELEC 470 UF 16V +/-20%	1	C814	
25-BCB471-M1X	CAP. ELEC 470 UF 16V +/-20%	1	C3	
25-BCB471-M1X	CAP. ELEC 470 UF 16V +/-20%	1	C4	
25-BCB101-M1X	CAP. ELEC 100 UF 16V +/-20%	1	C6	
25-BCB101-M1X	CAP. ELEC 100 UF 16V +/-20%	1	C7	
18-EF0478-JGX	RES. FUS. 0.47 OHM 1W +/-5%	1	RB11A	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C813	
25-BCB109-M1X	CAP. ELEC 1 UF 16V +/-20%	1	C401	
25-BCB109-M1X	CAP. ELEC 1 UF 16V +/-20%	1	C402	
64-B30120-103	M/C SCREW B 3 X 12	1		FOR IC802
64-B30140-103	M/C SCREW B 3 X 24	1		FOR IC801
40-LD1526-PWE	P.C.B. POWER PCB BD	1		
65-Z30050-23M	NUT M 3	2		FOR IC801,IC802
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	D807	
67-387190-2A0	HEAT SINK	1		FOR U401
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	D802	

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Item No.	Description	Quantity	Designator	Remarks
25-BFB229-M1X	CAP. ELEC 2.2 UF 50V +/-20%	1	C405	
19-BB0102-JTX	SMD. RES 1k OHM 1/10W +/-5%	1	R4	
19-BB0223-JTX	SMD. RES 22k OHM 1/10W +/-5%	1	R1	
19-BB0104-JTX	SMD. RES 100k OHM 1/10W +/-5% 0805	1	R7	
09-LL4148-ATX	SMD. SWITCHING DIODE LL4148	1	D1	
25-BCB101-M1X	CAP. ELEC 100 UF 16V +/-20%	1	C5	
19-BB0222-JTX	SMD. RES 2.2k OHM 1/10W +/-5%	1	R2	
19-BB0222-JTX	SMD. RES 2.2k OHM 1/10W +/-5%	1	R3	
28-BB0472-KBX	SMD. CAP 4700PF 50V +/-10%	1	C1	
28-BB0472-KBX	SMD. CAP 4700PF 50V +/-10%	1	C2	
18-FF0470-JGX	RES. M.O. 47 OHM 1W +/-5%	1	RB09	
46-33079W-04X	PIN BASE *4 TJC3-4A	1	F3	
36-LIF020-XX0	LINE FILTER LC-33-TCL	1	L810	
08-L2026S-DIY	ASS'Y - DIGITAL BD	1		
09-0BAV99-ATX	HIGH SPEED DOUBLE DIODE BAV99	1	D1	
09-0BAV99-ATX	HIGH SPEED DOUBLE DIODE BAV99	1	D10	
09-0BAV99-ATX	HIGH SPEED DOUBLE DIODE BAV99	1	D11	
09-0BAV99-ATX	HIGH SPEED DOUBLE DIODE BAV99	1	D12	
09-0BAV99-ATX	HIGH SPEED DOUBLE DIODE BAV99	1	D2	
09-0BAV99-ATX	HIGH SPEED DOUBLE DIODE BAV99	1	D3	
09-0BAV99-ATX	HIGH SPEED DOUBLE DIODE BAV99	1	D4	
09-LL4148-ATX	SMD. SWITCHING DIODE LL4148	1	D9	
10-1N5820-F0X	DIODE 1N5820	1	D5	
12-BC847A-0BX	SMD TRANSISTOR BC847A (NPN)	1	Q8	
12-C144ET-0BX	SMD. TRANSISTOR PDTC144ET	1	Q3	
12-C144ET-0BX	SMD. TRANSISTOR PDTC144ET	1	Q4	
13-00M24C-04P	IC 4K EEPROM M24C04-BN6	1	U29	
13-024LC1-6BB	IC 24LC16B	1	U22	
13-024LC2-1AP	IC 24LC21A	1	U8	
13-0AD988-3AB	IC AD9883	1	U3	
13-0DS181-9CB	IC DS1819CR5	1	U27	
13-0LM259-6SB	IC LM2596(TO-263)	1	U25	
13-74LV37-3AB	IC LV373A	1	U21	
13-AIC111-7MB	IC AIC1117MPX-2.5	1	U9	
13-BGA388-00B	IC BGA388	1	U11	
13-FLI220-00B	IC FLI2200	1	U6	
13-IC1084-CMB	IC AIC1084-33CM 3.3V (TO-263)	1	U5	
13-K4S643-23B	IC K4S643232C-TC60	1	U12	
13-K4S643-23B	IC K4S643232C-TC60	1	U13	
13-K4S643-23B	IC K4S643232C-TC60	1	U7	

Item No.	Description	Quantity	Designator	Remarks
13-LD1117-33B	IC LD1117 3.3V	1	U1	
13-RT9172-N25	IC RT9172N-25CM5	1	U26	
13-SI9953-DYB	IC SI9953DY(8-PIN)	1	U14	
13-SN74AH-C1B	IC SN74AHC139	1	U20	
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	OR13	
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	OR8	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	R12	
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	R167	
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	R181	
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	R201	
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	R209	
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	R210	
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	R211	
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	R215	
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	R219	
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	R30	
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	R34	
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	R38	
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	R5	
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	R58	
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	R59	
19-BB0100-JTX	RES. SMD 10 OHM 1/10W +/-5%	1	R54	
19-BB0100-JTX	RES. SMD 10 OHM 1/10W +/-5%	1	R55	
19-BB0100-JTX	RES. SMD 10 OHM 1/10W +/-5%	1	R57	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	OR2	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	OR3	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	OR4	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	R102	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	R208	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	R23	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	R44	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	R45	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	R46	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	R47	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	R13	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	R195	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	R196	
19-BB0102-JTX	SMD. RES 1k OHM 1/10W +/-5%	1	R206	
19-BB0102-JTX	SMD. RES 1k OHM 1/10W +/-5%	1	R48	
19-BB0102-JTX	SMD. RES 1k OHM 1/10W +/-5%	1	R49	

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Item No.	Description	Quantity	Designator	Remarks
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	OR11	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R10	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R107	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R18	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R19	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R20	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R21	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R22	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R3	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R50	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R51	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R52	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R6	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R61	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R62	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R63	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R9	
19-BB0121-JTX	SMD. RES 120 OHM 1/10W +/-5%	1	R7	
19-BB0121-JTX	SMD. RES 120 OHM 1/10W +/-5%	1	R11	
19-BB0121-JTX	SMD. RES 120 OHM 1/10W +/-5%	1	R8	
19-BB0220-JTX	SMD. RES 22 OHM 1/10W +/-5%	1	R15	
19-BB0220-JTX	SMD. RES 22 OHM 1/10W +/-5%	1	R165	
19-BB0220-JTX	SMD. RES 22 OHM 1/10W +/-5%	1	R53	
19-BB0220-JTX	SMD. RES 22 OHM 1/10W +/-5%	1	R60	
19-BB0220-JTX	SMD. RES 22 OHM 1/10W +/-5%	1	R87	
19-BB0221-JTX	SMD. RES 220 OHM 1/10W +/-5% 0805	1	R11-1	
19-BB0221-JTX	SMD. RES 220 OHM 1/10W +/-5% 0805	1	R191	
19-BB0221-JTX	SMD. RES 220 OHM 1/10W +/-5% 0805	1	R192	
19-BB0221-JTX	SMD. RES 220 OHM 1/10W +/-5% 0805	1	R193	
19-BB0221-JTX	SMD. RES 220 OHM 1/10W +/-5% 0805	1	R194	
19-BB0223-JTX	SMD. RES 22k OHM 1/10W +/-5%	1	R25	
19-BB0223-JTX	SMD. RES 22k OHM 1/10W +/-5%	1	R26	
19-BB0332-JTX	SMD. RES 3.3k OHM 1/10W +/-5%	1	R2	
19-BB0391-JTX	RES. SMD 390 OHM 1/10W +/-5%	1	R174	
19-BB0470-JTX	SMD. RES 47 OHM 1/10W +/-5%	1	R212	
19-BB0470-JTX	SMD. RES 47 OHM 1/10W +/-5%	1	R56	
19-BB0471-JTX	SMD. RES 470 OHM 1/10W +/-5%	1	R199	
19-BB0471-JTX	SMD. RES 470 OHM 1/10W +/-5%	1	R200	
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R14	
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R169	

Item No.	Description	Quantity	Designator	Remarks
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R171	
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R172	
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R173	
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R177	
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R179	
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R190	
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R198	
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R218	
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R24	
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R4	
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R72	
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R73	
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R75	
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R79	
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R93	
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R94	
19-BB0473-JTX	SMD. RES 47k OHM 1/10W +/-5% 0805	1	R103	
19-BB0473-JTX	SMD. RES 47k OHM 1/10W +/-5% 0805	1	R80	
19-BB0682-JTX	SMD. RES 6.8k OHM 1/10W +/-5%	1	R78	
19-BB0750-JTX	SMD. RES 75 OHM 1/10W +/-5%	1	R225	
19-BB0750-JTX	SMD. RES 75 OHM 1/10W +/-5%	1	R28	
19-BB0750-JTX	SMD. RES 75 OHM 1/10W +/-5%	1	R29	
19-BB0750-JTX	SMD. RES 75 OHM 1/10W +/-5%	1	R32	
19-BB0750-JTX	SMD. RES 75 OHM 1/10W +/-5%	1	R33	
19-BB0750-JTX	SMD. RES 75 OHM 1/10W +/-5%	1	R36	
19-BB0750-JTX	SMD. RES 75 OHM 1/10W +/-5%	1	R37	
23-A08101-JBX	NETWORK RES. 100 OHM +/-5%	1	RP28	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP1	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP10	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP11	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP12	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP13	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP14	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP15	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP2	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP29	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP3	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP30	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP31	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP32	

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Item No.	Description	Quantity	Designator	Remarks
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP33	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP34	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP35	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP36	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP37	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP38	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP4	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP5	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP6	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP7	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP8	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP9	
25-BDA471-M1X	CAP. ELEC 470 UF 25V +/-20%	1	C200	
25-BDB221-M1X	CAP. ELEC 220 UF 25V +/-20%	1	C201	
28-BB0100-JCX	SMD. CAP 10 PF 50V +/-5%	1	C454	
28-BB0100-JCX	SMD. CAP 10 PF 50V +/-5%	1	C94	
28-BB0101-JCX	SMD CAP. 100 PF 50V C 0805	1	C425	
28-BB0101-JCX	SMD CAP. 100 PF 50V C 0805	1	C426	
28-BB0101-JCX	SMD CAP. 100 PF 50V C 0805	1	C427	
28-BB0101-JCX	SMD CAP. 100 PF 50V C 0805	1	C428	
28-BB0101-JCX	SMD CAP. 100 PF 50V C 0805	1	C430	
28-BB0101-JCX	SMD CAP. 100 PF 50V C 0805	1	C85	
28-BB0101-JCX	SMD CAP. 100 PF 50V C 0805	1	C86	
28-BB0102-KBX	SMD CAP. 0.001UF 50V B 0805	1	C10	
28-BB0102-KBX	SMD CAP. 0.001UF 50V B 0805	1	C102	
28-BB0102-KBX	SMD CAP. 0.001UF 50V B 0805	1	C103	
28-BB0102-KBX	SMD CAP. 0.001UF 50V B 0805	1	C105	
28-BB0102-KBX	SMD CAP. 0.001UF 50V B 0805	1	C117	
28-BB0102-KBX	SMD CAP. 0.001UF 50V B 0805	1	C12	
28-BB0102-KBX	SMD CAP. 0.001UF 50V B 0805	1	C14	
28-BB0102-KBX	SMD CAP. 0.001UF 50V B 0805	1	C16	
28-BB0102-KBX	SMD CAP. 0.001UF 50V B 0805	1	C18	
28-BB0102-KBX	SMD CAP. 0.001UF 50V B 0805	1	C89	
28-BB0102-KBX	SMD CAP. 0.001UF 50V B 0805	1	C96	
28-BB0103-KBX	SMD. CAP 10nF 50V +/-10% 0805	1	C436	
28-BB0103-KBX	SMD. CAP 10nF 50V +/-10% 0805	1	C437	
28-BB0103-KBX	SMD. CAP 10nF 50V +/-10% 0805	1	C438	
28-BB0103-KBX	SMD. CAP 10nF 50V +/-10% 0805	1	C439	
28-BB0103-KBX	SMD. CAP 10nF 50V +/-10% 0805	1	C440	
28-BB0103-ZFX	SMD. CAP 10NF 50V +80%-20%	1	C237	

Item No.	Description	Quantity	Designator	Remarks
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C100	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C101	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C107	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C108	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C11	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C111	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C113	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C115	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C118	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C119	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C120	
28-AB0103-KBX	SMD. CAP 0.01 UF 50V +/-10% 0603	1	C122	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C123	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C124	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C125	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C126	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C127	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C128	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C129	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C13	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C130	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C131	
28-AB0103-KBX	SMD. CAP 0.01 UF 50V +/-10% 0603	1	C132	
28-AB0103-KBX	SMD. CAP 0.01 UF 50V +/-10% 0603	1	C133	
28-AB0103-KBX	SMD. CAP 0.01 UF 50V +/-10% 0603	1	C134	
28-AB0103-KBX	SMD. CAP 0.01 UF 50V +/-10% 0603	1	C135	
28-AB0103-KBX	SMD. CAP 0.01 UF 50V +/-10% 0603	1	C136	
28-AB0103-KBX	SMD. CAP 0.01 UF 50V +/-10% 0603	1	C137	
28-AB0103-KBX	SMD. CAP 0.01 UF 50V +/-10% 0603	1	C138	
28-AB0103-KBX	SMD. CAP 0.01 UF 50V +/-10% 0603	1	C139	
28-AB0103-KBX	SMD. CAP 0.01 UF 50V +/-10% 0603	1	C140	
28-AB0103-KBX	SMD. CAP 0.01 UF 50V +/-10% 0603	1	C141	
28-AB0103-KBX	SMD. CAP 0.01 UF 50V +/-10% 0603	1	C142	
28-AB0103-KBX	SMD. CAP 0.01 UF 50V +/-10% 0603	1	C143	
28-AB0103-KBX	SMD. CAP 0.01 UF 50V +/-10% 0603	1	C146	
28-AB0103-KBX	SMD. CAP 0.01 UF 50V +/-10% 0603	1	C147	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C148	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C149	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C15	
28-AB0103-KBX	SMD. CAP 0.01 UF 50V +/-10% 0603	1	C150	

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Item No.	Description	Quantity	Designator	Remarks
28-AB0103-KBX	SMD. CAP 0.01 UF 50V +/-10% 0603	1	C151	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C152	
28-AB0103-KBX	SMD. CAP 0.01 UF 50V +/-10% 0603	1	C153	
28-AB0103-KBX	SMD. CAP 0.01 UF 50V +/-10% 0603	1	C154	
28-AB0103-KBX	SMD. CAP 0.01 UF 50V +/-10% 0603	1	C155	
28-AB0103-KBX	SMD. CAP 0.01 UF 50V +/-10% 0603	1	C156	
28-AB0103-KBX	SMD. CAP 0.01 UF 50V +/-10% 0603	1	C157	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C158	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C159	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C160	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C161	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C162	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C163	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C164	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C165	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C166	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C167	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C168	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C169	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C17	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C171	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C172	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C173	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C19	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C202	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C204	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C209	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C211	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C212	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C213	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C214	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C215	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C216	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C224	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C26	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C27	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C28	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C29	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C3	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C30	

Item No.	Description	Quantity	Designator	Remarks
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C31	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C32	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C33	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C34	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C39	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C40	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C404	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C422	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C423	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C431	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C432	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C433	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C435	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C449	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C45	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C450	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C451	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C452	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C453	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C46	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C469	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C47	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C48	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C49	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C50	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C51	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C52	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C53	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C54	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C55	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C56	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C57	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C59	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C60	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C61	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C62	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C63	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C64	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C65	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C66	

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Item No.	Description	Quantity	Designator	Remarks
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C67	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C68	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C69	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C70	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C71	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C72	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C73	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C74	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C8	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C87	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C9	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C98	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C99	
28-BB0229-BCX	SMD. CAP 2.2 pF 50V +/-0.1pF (0805)	1	C76	
28-BB0229-BCX	SMD. CAP 2.2 pF 50V +/-0.1pF (0805)	1	C78	
28-BB0229-BCX	SMD. CAP 2.2 pF 50V +/-0.1pF (0805)	1	C80	
28-BB0271-JCX	SMD. CAP 270 PF 50V +/-5%	1	C93	
28-BB0392-KBX	SMD. CAP 3.9NF 50V +/-10%	1	C6	
28-BB0153-KBX	SMD. CAP 15NF 50V +/-10% 0805	1	C5	
28-BB0470-JCX	SMD. CAP 47 PF 50V +/-5%	1	C35	
28-BB0470-JCX	SMD. CAP 47 PF 50V +/-5%	1	C7	
28-BB0473-KBX	CAP.SMD	1	C20	
28-BB0473-KBX	CAP.SMD	1	C22	
28-BB0473-KBX	CAP.SMD	1	C24	
28-BB0479-JCX	SMD. CAP 4.7PF 50V +/-5%	1	C21	
28-BB0479-JCX	SMD. CAP 4.7PF 50V +/-5%	1	C23	
28-BB0479-JCX	SMD. CAP 4.7PF 50V +/-5%	1	C25	
28-BB0271-JCX	SMD. CAP 270 PF 50V +/-5%	1	C175	
28-BB0271-JCX	SMD. CAP 270 PF 50V +/-5%	1	C92	
28-CC0106-MTX	TANTALUM CAP. 10 UF 16V +/-20% 6032	1	C448	
28-CC0226-MTX	TANTALUM CAP. 22 UF 16VDC +/-20% 6032	1	C1	
28-CC0226-MTX	TANTALUM CAP. 22 UF 16VDC +/-20% 6032	1	C144	
28-CC0226-MTX	TANTALUM CAP. 22 UF 16VDC +/-20% 6032	1	C145	
28-CC0226-MTX	TANTALUM CAP. 22 UF 16VDC +/-20% 6032	1	C206	
28-CC0226-MTX	TANTALUM CAP. 22 UF 16VDC +/-20% 6032	1	C207	
28-CC0226-MTX	TANTALUM CAP. 22 UF 16VDC +/-20% 6032	1	C208	
28-CC0476-MTX	TANTALUM CAP. 47 UF 16V +/-20% 6032	1	C205	
28-CC0476-MTX	TANTALUM CAP. 47 UF 16V +/-20% 6032	1	C41	
28-CC0476-MTX	TANTALUM CAP. 47 UF 16V +/-20% 6032	1	C43	
28-CC0476-MTX	TANTALUM CAP. 47 UF 16V +/-20% 6032	1	C44	

Item No.	Description	Quantity	Designator	Remarks
28-DE0106-MTX	SMD.CAP 35V 10UF +/-20%	1	C468	
28-CC0476-MTX	TANTALUM CAP. 47 UF 16V +/-20% 6032	1	C58	
28-DC0107-MTX	TANTALUM CAP. 100 UF 16VDC +/-20%	1	C203	
28-DC0107-MTX	TANTALUM CAP. 100 UF 16VDC +/-20%	1	C467	
28-DE0106-MTX	SMD.CAP 35V 10UF +/-20%	1	C170	
28-DE0106-MTX	SMD.CAP 35V 10UF +/-20%	1	C226	
28-DE0106-MTX	SMD.CAP 35V 10UF +/-20%	1	C227	
28-DE0106-MTX	SMD.CAP 35V 10UF +/-20%	1	C447	
28-DE0106-MTX	SMD.CAP 35V 10UF +/-20%	1	C473	
33-ELL339-KTX	SMD. COIL 3.3 UH +/-10% 0805	1	L2	
33-ELL339-KTX	SMD. COIL 3.3 UH +/-10% 0805	1	L3	
33-ELL339-KTX	SMD. COIL 3.3 UH +/-10% 0805	1	L4	
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	FB11	
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	FB12	
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	FB13	
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	FB14	
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	FB15	
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	FB16	
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	FB17	
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	FB18	
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	FB19	
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	FB2	
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	FB20	
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	FB21	
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	FB22	
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	FB23	
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	FB25	
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	FB26	
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	FB3	
33-GLN121-NTX	CHIP BEAD 120 OHM +/-25%	1	FB32	
33-GLN121-NTX	CHIP BEAD 120 OHM +/-25%	1	FB35	
33-GLN121-NTX	CHIP BEAD 120 OHM +/-25%	1	FB40	
33-GLN121-NTX	CHIP BEAD 120 OHM +/-25%	1	FB41	
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	FB50	
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	FB51	
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	FB52	
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	FB53	
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	FB54	
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	FB55	
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	FB56	

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Item No.	Description	Quantity	Designator	Remarks
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	FB57	
33-GLN121-NTX	CHIP BEAD 120 OHM +/-25%	1	FB58	
33-GLN121-NTX	CHIP BEAD 120 OHM +/-25%	1	FB59	
33-GLN121-NTX	CHIP BEAD 120 OHM +/-25%	1	FB62	
33-GLN121-NTX	CHIP BEAD 120 OHM +/-25%	1	FB63	
33-GLN121-NTX	CHIP BEAD 120 OHM +/-25%	1	FB64	
33-GLN121-NTX	CHIP BEAD 120 OHM +/-25%	1	FB65	
33-GLN121-NTX	CHIP BEAD 120 OHM +/-25%	1	FB66	
33-GLN121-NTX	CHIP BEAD 120 OHM +/-25%	1	FB67	
33-GLN121-NTX	CHIP BEAD 120 OHM +/-25%	1	FB68	
33-GLN121-NTX	CHIP BEAD 120 OHM +/-25%	1	FB69	
33-GLN121-NTX	CHIP BEAD 120 OHM +/-25%	1	FB7	
33-GLN121-NTX	CHIP BEAD 120 OHM +/-25%	1	FB70	
33-GLN121-NTX	CHIP BEAD 120 OHM +/-25%	1	FB71	
33-GLN121-NTX	CHIP BEAD 120 OHM +/-25%	1	FB72	
33-GLN121-NTX	CHIP BEAD 120 OHM +/-25%	1	FB73	
33-GLN121-NTX	CHIP BEAD 120 OHM +/-25%	1	FB74	
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	FB75	
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	FB76	
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	FB77	
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	FB78	
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	FB79	
33-GLN121-NTX	CHIP BEAD 120 OHM +/-25%	1	FB8	
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	R1	
36-LIF020-XX0	LINE FILTER LC-33-TCL	1	L1	
45-OSC14M-3N0	CRYSTAL 14.318MHz	1	U10	
46-35199W-02X	CONN.PH-2A 2PIN PITCH=2.0MM	1	J1	
46-35199W-04X	CONN.PH-4A 4PIN PITCH=2.0MM	1	P25	
46-35199W-05X	CONN.PH-5A 5PIN PITCH=2.0MM	1	P8	
46-35199W-05X	CONN.PH-5A 5PIN PITCH=2.0MM	1	P2	
46-35199W-10X	CONN. PH-10 10PIN PITCH=2.0mm	1	P14	
46-33333W-02X	CONN.VH-2A 90 ANGLE PITCH=3.96	1	P24	
47-DVI001-KX0	DVI SOCKET KL-DIV024-04A	1	P10	
47-ICS007-XX0	IC SOCKET PLCC-SMT-44P	1		FOR U19
47-ICS009-XX0	IC SOCKET 8P	1		FOR U29
47-ICS009-XX0	IC SOCKET 8P	1	FOR U8	
47-SCA001-XX0	SCART SOCKET 21 PINS SS101-P	1	P17	
47-VGA004-XX0	VGA SOCKET D-SUB-15S(BLACK)	1	P11	
48-TAC001-XX0	TACT SWITCH	1	SW1	
13-LD1117-33B	IC LD1117 3.3V	1	U15_1	

Item No.	Description	Quantity	Designator	Remarks
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	R77	
50-03000B-NUU	FUSE R251003-3A	1	F2	
43-SFSS11-2DM	RELAY SF-SS-112DM	1	FELA1	
45-OSC14M-3Y2	CRYSTAL 14.31818MHZ	1	Y2	
13-P87C52-X2B	IC P87C52X2BA	1	U19	
40-3026WS-D1B	P.C.B. DIGITAL BD	1		
09-BAV70L-ATX	SMD. DIODE BAV70LT1(SOT-23)	1	D6	
09-BAV70L-ATX	SMD. DIODE BAV70LT1(SOT-23)	1	D7	
09-BAV70L-ATX	SMD. DIODE BAV70LT1(SOT-23)	1	D8	
28-BD0224-SGX	CHIP CAP. 0.22UF 25V +50/-20%	1	CX1	
28-BD0224-SGX	CHIP CAP. 0.22UF 25V +50/-20%	1	CX3	
28-BD0224-SGX	CHIP CAP. 0.22UF 25V +50/-20%	1	CX5	
19-BB0750-JTX	SMD. RES 75 OHM 1/10W +/-5%	1	R98	
19-BB0750-JTX	SMD. RES 75 OHM 1/10W +/-5%	1	R99	
19-BB0750-JTX	SMD. RES 75 OHM 1/10W +/-5%	1	R100	
28-BD0105-ZFX	SMD CAP 1UF 25V +80-20%	1	C109	
28-BD0105-ZFX	SMD CAP 1UF 25V +80-20%	1	C110	
28-BD0105-ZFX	SMD CAP 1UF 25V +80-20%	1	C112	
28-BD0105-ZFX	SMD CAP 1UF 25V +80-20%	1	C121	
28-BD0105-ZFX	SMD CAP 1UF 25V +80-20%	1	C15-2	
28-BD0105-ZFX	SMD CAP 1UF 25V +80-20%	1	C225	
28-BD0105-ZFX	SMD CAP 1UF 25V +80-20%	1	C42	
28-BD0105-ZFX	SMD CAP 1UF 25V +80-20%	1	C474	
28-BD0105-ZFX	SMD CAP 1UF 25V +80-20%	1	C75	
28-BD0105-ZFX	SMD CAP 1UF 25V +80-20%	1	C77	
28-BD0105-ZFX	SMD CAP 1UF 25V +80-20%	1	C79	
46-39371H-05X	HS 5P 2468#26 60MM PH-5Y*2	1		• • • P2• • • • P100Ω •
46-39373H-08X	HS 9P 1185#26 120MM PH-8Y/JC20-8Y	1		• • • P1• • • • P100Ω •
67-387190-0A0	HEAT SINK	1		FOR U11
67-387190-0A0	HEAT SINK	1		FOR U6
67-387190-1A0	HEAT SINK	1		FOR U12
67-387190-1A0	HEAT SINK	1		FOR U13
67-387190-1A0	HEAT SINK	1		FOR U7
67-387200-1A0	HEAT SINK	1		FOR U3
46-39398H-41X	HS 41PIN	1		• • • • • • • • • • • • • • • • • • • •
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	R12-3	
46-38614W-41X	PIN BASE DF9B-41P-1V	1	P4	
47-PWS012-XX0	SOCKET DSW-47	1	P22	
12-C144ET-0BX	SMD. TRANSISTOR PDTC144ET	1	Q6	
28-BB0103-ZFX	SMD. CAP 10NF 50V +80%-20%	1	C477	

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Item No.	Description	Quantity	Designator	Remarks
28-BB0103-ZFX	SMD. CAP 10NF 50V +80%-20%	1	C482	
28-BB0103-ZFX	SMD. CAP 10NF 50V +80%-20%	1	C483	
28-BB0103-ZFX	SMD. CAP 10NF 50V +80%-20%	1	C486	
28-BB0103-ZFX	SMD. CAP 10NF 50V +80%-20%	1	C488	
28-BB0103-ZFX	SMD. CAP 10NF 50V +80%-20%	1	C490	
28-BB0103-ZFX	SMD. CAP 10NF 50V +80%-20%	1	C492	
28-BB0103-ZFX	SMD. CAP 10NF 50V +80%-20%	1	C493	
28-BB0103-ZFX	SMD. CAP 10NF 50V +80%-20%	1	C496	
28-BB0103-ZFX	SMD. CAP 10NF 50V +80%-20%	1	C498	
28-BB0103-ZFX	SMD. CAP 10NF 50V +80%-20%	1	C499	
28-BB0103-ZFX	SMD. CAP 10NF 50V +80%-20%	1	C504	
28-BB0103-ZFX	SMD. CAP 10NF 50V +80%-20%	1	C505	
28-BD0105-ZFX	SMD CAP 1UF 25V +80-20%	1	C478	
28-BD0105-ZFX	SMD CAP 1UF 25V +80-20%	1	C481	
28-BD0105-ZFX	SMD CAP 1UF 25V +80-20%	1	C484	
28-BD0105-ZFX	SMD CAP 1UF 25V +80-20%	1	C485	
28-BD0105-ZFX	SMD CAP 1UF 25V +80-20%	1	C487	
28-BD0105-ZFX	SMD CAP 1UF 25V +80-20%	1	C489	
28-BD0105-ZFX	SMD CAP 1UF 25V +80-20%	1	C491	
28-BD0105-ZFX	SMD CAP 1UF 25V +80-20%	1	C494	
28-BD0105-ZFX	SMD CAP 1UF 25V +80-20%	1	C495	
28-BD0105-ZFX	SMD CAP 1UF 25V +80-20%	1	C497	
28-BD0105-ZFX	SMD CAP 1UF 25V +80-20%	1	C500	
28-BD0105-ZFX	SMD CAP 1UF 25V +80-20%	1	C503	
28-BD0105-ZFX	SMD CAP 1UF 25V +80-20%	1	C506	
33-GLN190-NTX	CHIP BEAD 19 OHM +/-25% (3216)	1	FB82	
33-GLN190-NTX	CHIP BEAD 19 OHM +/-25% (3216)	1	FB83	
12-BC847B-0BX	NPN SMD. TRANSISTOR BC847B (SOT-23)	1	Q11	
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R230	
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	R237	
19-BB0221-JTX	SMD. RES 220 OHM 1/10W +/-5% 0805	1	R234	
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	R241	
12-C144ET-0BX	SMD. TRANSISTOR PDTC144ET	1	Q9	
18-CB0103-JNX	RES. C.F. 10K OHM 1/6W +/-5%	1		RELA2• 2• • 4••• • •
11-2SJ449-0AX	TRANSISTOR 2SJ449	1	Q10	
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	R14_1	
46-39396H-06X	HS 2P 1007#26 800MM PH-7Y/PH-6Y	1		• • • P7• • • • CN4 • •
19-BB0220-JTX	SMD. RES 22 OHM 1/10W +/-5%	1	R197	
23-A08101-JBX	NETWORK RES. 100 OHM +/-5%	1	RP17	
23-A08101-JBX	NETWORK RES. 100 OHM +/-5%	1	RP19	

Item No.	Description	Quantity	Designator	Remarks
23-A08101-JBX	NETWORK RES. 100 OHM +/-5%	1	RP21	
23-A08101-JBX	NETWORK RES. 100 OHM +/-5%	1	RP23	
23-A08101-JBX	NETWORK RES. 100 OHM +/-5%	1	RP25	
23-A08101-JBX	NETWORK RES. 100 OHM +/-5%	1	RP27	
28-XC0106-MTX	TANTALUM CAP.10 UF 16V +/-20%	1	C114	
28-XC0106-MTX	TANTALUM CAP.10 UF 16V +/-20%	1	C116	
28-XC0106-MTX	TANTALUM CAP.10 UF 16V +/-20%	1	C104	
28-XC0106-MTX	TANTALUM CAP.10 UF 16V +/-20%	1	C91	
28-XC0106-MTX	TANTALUM CAP.10 UF 16V +/-20%	1	C434	
28-XC0106-MTX	TANTALUM CAP.10 UF 16V +/-20%	1	C2	
28-XC0106-MTX	TANTALUM CAP.10 UF 16V +/-20%	1	C4	
28-XC0106-MTX	TANTALUM CAP.10 UF 16V +/-20%	1	C38	
28-XC0106-MTX	TANTALUM CAP.10 UF 16V +/-20%	1	C429	
28-XC0106-MTX	TANTALUM CAP.10 UF 16V +/-20%	1	C424	
28-XC0106-MTX	TANTALUM CAP.10 UF 16V +/-20%	1	C90	
28-BB0120-JCX	SMD. CAP 12 pF 50VDC +/-5%	1	C198	
28-BB0120-JCX	SMD. CAP 12 pF 50VDC +/-5%	1	C199	
46-39459H-02X	HS 2P 1015#22 180MM VH-2Y/VH-2Y	1		• • • P1804• • • • P24 • •
47-ICS003-XX0	IC JACK	1	FOR U2	FOR U23
19-BB0102-JTX	SMD. RES 1k OHM 1/10W +/-5%	1	R205	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R207	
13-SST39V-7CB	FLASH SST39VF020-70-4C-WH(32-PIN TSOP)	1	U31	
46-39371H-05X	HS 5P 2468#26 60MM PH-5Y*2	1		• • • P8• • • • P1808 •
46-FF015F-02B01	HS 2P 1007#26 150MM PH-2Y/PH-2Y	1		• • • P2• • • • J1• • •
46-FF060T-04L	HS 4P 2547#24 600MM PH-4Y/PH-4Y	1		• • • P25••• • • P1• • • • • •
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	R228	
66-702620-0E2	SCREW POST	2		FOR P10
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	R227	
19-BB0223-JTX	SMD. RES 22k OHM 1/10W +/-5%	1	R239	
25-BCB220-M1X	CAP. ELEC 22 UF 16V +/-20%	1		• • • • • Q9-B• • • • • • • • • • •
13-SII161-00B	IC SII161BCT100	1	U28	
28-BD0105-ZFX	SMD CAP 1UF 25V +80-20%	1	C106	
08-L2026S-FCN	ASS'Y - FRONT CABINET	1		
56-707460-0HC1A	LENS	1		
56-707600-0HA1A	POWER KNOB	1		
63-W30080-AB4	S/T SCREW W 3 X 8 AB	8		MTG SPEAKER & FRONT CABINET
63-W30100-AB4	S/T SCREW W 3 X 10 AB	3		MTG FRONT CTL BD & FRONT CABINET
63-W30100-AB4	S/T SCREW W 3 X 10 AB	3		MTG RECEIVE BD & FRONT CABINET
63-W30100-AB4	S/T SCREW W 3 X 10 AB	13		MTG IRON BRACKET & FRONT CABINET
64-B30080-104	M/C SCREW B 3 X 8	4		MTG LCD PANEL & IRON BRACKET

Item No.	Description	Quantity	Designator	Remarks
64-B30080-104	M/C SCREW B 3 X 8	7		MTG ANOLOG BD & IRON BRACKET
64-B30080-104	M/C SCREW B 3 X 8	4		MTG DIGITAL BD & IRON BRACKET
64-B30080-104	M/C SCREW B 3 X 8	3		MTG REAR PANEL & IRON BRACKET
64-B30080-104	M/C SCREW B 3 X 8	1		MTG TUNER CASE & IRON BRACKET
55-707760-0UA1B	FRONT CABINET	1		
67-M70781-0E0	BIG BRACKET	1		
67-S70782-0E0	SCREEN COVER (1)	1		
67-M70785-0E0	PRESS BOARD	1		
66-366850-7B0	SCREW POST	1		MTG ANOLOG BD & REAR CABINET
66-366850-7B0	SCREW POST	1		MTG DIGITAL BD & REAR CABINET
58-708510-1UI1A	INLAY FRONT AV	1		
81-BL1006-XX0	BOARD	1		
4A-LCD20T-LG1	LCD LC201V02	1		
42-04706D-XX0	SPEAKER 6 OHM 5W	2		
46-39369H-02X	2PINS 2468 #22 L=300MM	1		• • • • • •
67-L40071-0A01A	LOGO	1		
64-B30080-104	M/C SCREW B 3 X 8	4		• • • • • • • • • • • • • • • • • •
57-10654X-00F	cable ties(2.5mmX95mm)	4		
46-27580H-02X	HS 2P22 600/7 TJC3-2Y	1		• • • • • •
89-710370-JZ0	TAPE	1.48		• • • • • • • • • • • • • • • • • •
89-382910-JZ0	EMI ALUMINUM FOIL	0.001		
08-L2026S-RCN		1		
63-B30100-AB3	S/T SCREW B 3 X 10 AB	1		MTG TUNER CASE & REAR CABINET
63-B30120-AB3	S/T SCREW B 3.0 X 12	4		MTG FRONT CABINET & REAR CABINET
63-W30080-AB4	S/T SCREW W 3 X 8 AB	3		MTG WALL BRACKET & REAR CABINET
63-W30080-AB4	S/T SCREW W 3 X 8 AB	4		MTG HIGE BRACKET & REAR CABINET
64-B30100-103	M/C SCREW B 3 X 10	2		MTG IRON BRACKET & REAR CABINET
64-B40080-102	M/C SCREW B 4 X 8	4		MTG HINGE & HINGE IRON BRACKET
67-M70786-0E0	AXES SUPPORT	1		
68-707870-000	TURNING AXES	1		
55-707770-0UA1A	REAR CABINET	1		
62-707780-0HA1A	REAR BRACKET (1)	1		
62-707790-0HA1A	TUNER PRESS TOP	1		
62-707800-0HA1A	HINGE PRESS TOP (1)	1		
62-707800-1HA1A	HINGE PRESS TOP (2)	1		
67-M70768-0E0	BRACKET	1		
64-B30100-103	M/C SCREW B 3 X 10	2		MTG • • •&•• • • • •
54-710350-00X02	FELT TAPE	1		• •
54-710360-00X02	FELT TAPE	1		• •
54-114000-00X01	FELT TAPE	19		• • • • • • • • • • • • •

Item No.	Description	Quantity	Designator	Remarks
58-2026MP-OUI1D	PLATE MODEL NO.	1		
08-L2026S-PAN	ASS'Y - PACKING PARTS	1		
76-708240-OBT	TUNER BOX PAPER	1		
76-708250-OBT	TUNER PAPER BOX	1		
75-708540-CCO	POLYFOAM "UR"	1		
75-708550-CCO	POLYFOAM "UL"	1		
75-708560-CCO	POLYFOAM "LR"	1		
75-708570-CCO	POLYFOAM "LL"	1		
72-LC2026-E001A	OPERATION MANUAL	1		
76-708520-OBT	CARTON BOX	1		
81-ADT126-670	ADAPTER	1		
74-080060-5WD	POLYBAG (80cmx60cmx0.5mm)	1		
06-090W37-A000X	ASSY - REMOTE HANDSET	1		
51-FC0180-0SU08	POWER CORD	1		
76-LC2026-2AT1A	CARTON BOX	1		
49-382380-BAT	BATTERY 7# (R03P AAA SUM-4)	2		
08-L2026S-BSY	ASS'Y - BASE PARTS	1		
59-707720-00X	RUBBER PAD	6		
64-B40120-102	MACHINE SCREW B 4X12	4		MTG HINGE SUPPORT & HINGE
58-708820-OUI1A	BASE LABEL	1		
67-M70859-0A0	AXES SUPPORT (1)	1		
67-707650-0A0	BASE (1)	1		
64-B40080-102	M/C SCREW B 4 X 8	4		MTG HINGE SUPPORT & BASE
08-L2026S-TUY	ASS'Y - TUNER BD	1		
09-0BA982-ATX	SMD.DIODE BA982-GS08	1	D610	
09-0BA982-ATX	SMD.DIODE BA982-GS08	1	D611	
09-0BA982-ATX	SMD.DIODE BA982-GS08	1	D612	
09-0BAV99-ATX	HIGH SPEED DOUBLE DIODE BAV99	1	D613	
09-55C33V-DTX	SMD.DIODE BZV55-C33	1	D614	
09-LL4148-ATX	SMD. SWITCHING DIODE LL4148	1	D601	
12-BC846B-0BX	TRANSISTORS BC846B (PNP)	1	Q612	
12-BC847C-0BX	SMD.TRANSISTOR BC847C	1	Q610	
12-BC847C-0BX	SMD.TRANSISTOR BC847C	1	Q611	
13-TDA988-6TB	IC TDA9886T/V3	1	IC601	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	R618	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	R619	
19-BB0104-JTX	SMD. RES 100k OHM 1/10W +/-5% 0805	1	R616	
19-BB0104-JTX	SMD. RES 100k OHM 1/10W +/-5% 0805	1	R630	
19-BB0123-JTX	SMD. RES 12k OHM 1/10W +/-5%	1	R601	
19-BB0123-JTX	SMD. RES 12k OHM 1/10W +/-5%	1	R615	

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Item No.	Description	Quantity	Designator	Remarks
19-BB0221-JTX	SMD. RES 220 OHM 1/10W +/-5% 0805	1	R614	
19-BB0222-JTX	SMD. RES 2.2k OHM 1/10W +/-5%	1	R14	
19-BB0223-JTX	SMD. RES 22k OHM 1/10W +/-5%	1	R604	
19-BB0223-JTX	SMD. RES 22k OHM 1/10W +/-5%	1	R608	
19-BB0223-JTX	SMD. RES 22k OHM 1/10W +/-5%	1	R611	
19-BB0224-JTX	SMD. RES 220K 1/10W +/-5%	1	R610	
19-BB0331-JTX	SMD. RES 330 OHM 1/10W +/-5% 0805	1	R612	
19-BB0473-JTX	SMD. RES 47k OHM 1/10W +/-5% 0805	1	R631	
19-BB0510-JTX	RES.SMD 51 OHM 1/10W +/-5% 0805	1	R605	
19-BB0562-JTX	SMD. RES 5.6k OHM 1/10W +/-5%	1	R617	
19-BB0682-JTX	SMD. RES 6.8k OHM 1/10W +/-5%	1	R606	
19-BB0682-JTX	SMD. RES 6.8k OHM 1/10W +/-5%	1	R607	
19-BB0684-JTX	SMD. RES 680K OHM 1/10W +/-5%	1	R609	
19-BB0750-JTX	SMD. RES 75 OHM 1/10W +/-5%	1	R613	
28-BB0102-KBX	SMD CAP. 0.001UF 50V B 0805	1	C619	
28-BB0103-ZFX	SMD. CAP 10NF 50V +80%-20%	1	C609	
28-BB0103-ZFX	SMD. CAP 10NF 50V +80%-20%	1	C611	
28-BB0103-ZFX	SMD. CAP 10NF 50V +80%-20%	1	C617	
28-BB0103-ZFX	SMD. CAP 10NF 50V +80%-20%	1	C621	
28-BB0103-ZFX	SMD. CAP 10NF 50V +80%-20%	1	C623	
28-BB0103-ZFX	SMD. CAP 10NF 50V +80%-20%	1	C635	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C603	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C604	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C622	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C633	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C634	
28-BB0152-KBX	SMD. CAP 1500PF 50V +/-10%	1	C614	
28-BB0200-JCX	SMD. CAP 20 PF 50V +/-5%	1	C613	
28-BB0201-JCX	SMD. CAP 200 pF 50VDC +/-5% 0805	1	C631	
28-BB0224-ZFX	SMD. CAP 0.22UF 50V +80%/-20% 0805	1	C610	
28-BB0271-JCX	SMD. CAP 270 PF 50V +/-5%	1	C632	
28-BB0391-JCX	SMD. CAP 390 PF 50V +/-5%	1	C618	
28-BB0472-KBX	SMD. CAP 4700PF 50V +/-10%	1	C630	
28-BB0474-ZFX	SMD. CAP 0.47UF 50V +80%-20%	1	C612	
28-BB0474-ZFX	SMD. CAP 0.47UF 50V +80%-20%	1	C615	
28-BB0474-ZFX	SMD. CAP 0.47UF 50V +80%-20%	1	C620	
28-CC0476-MTX	TANTALUM CAP. 47 UF 16V +/-20% 6032	1	C601	
28-CC0476-MTX	TANTALUM CAP. 47 UF 16V +/-20% 6032	1	C602	
28-CC0476-MTX	TANTALUM CAP. 47 UF 16V +/-20% 6032	1	C637	
33-DLL100-KTX	SMD. COIL 10 UH +/-10% 3225	1	L602	

Item No.	Description	Quantity	Designator	Remarks
33-DLL100-KTX	SMD. COIL 10 UH +/-10% 3225	1	L612	
33-ELL109-KTX	SMD.COLL MGFI2012CIROKT	1	L601	
33-ELN102-NTX	SMD.COLL CBG201209U 102B	1	L606	
34-R102K7-0EX	COIL 1000 UH +/-10%	1	L603	
34-R102K7-0EX	COIL 1000 UH +/-10%	1	L604	
40-LS3026-TUC	P.C.B. TUNER BD	1		
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	J601	
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	J602	
45-OSC4M0-0N10A	CRYSTAL 4.0MHz	1	Z601	
45-SAWK39-53D	S.A.W B39389-K3953-D100	1	Z610	
45-SAWK94-53D	S.A.W B39389-K9453-D100	1	Z611	
47-VGA013-XX0	VGA SOCKET KL-VGA15F-W	1	S602	
62-708200-0HN1A	TUNER BOX (UP)	1		
62-708210-0HN1A	TUNER BOX (LOWER)	1		
63-B30120-AB3	S/T SCREW B 3.0 X 12	2		MTG TUNER CASE (UP) & TUNER CASE (DOWN)
67-S70834-0E0	TUNER SCREEN COVER (UP)	1		
67-S70835-0E0	TUNER SCREEN COVER (LOWER)	1		
28-DC0107-MTX	TANTALUM CAP. 100 UF 16VDC +/-20%	1	C638	
08-L2026S-TCY		1		
07-389F15-NX1	FS TUNER UV1316/S L G-3	1	U601	
40-LS3026-TCC	P.C.B. TUNER CHANGE BD	1		
19-B80000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	R103	
08-L2026S-1RY	ASS'Y - RECEIVE BD	1		
25-HCB100-M1X	CAP. ELEC 10 UF 16V +/-20%	1	C1	
46-35135W-04X	PIN BASE PH-04AW	1	P1	
40-LS2026-1RA	P.C.B.IR RECEIVE BD	1		
18-CB0100-JNX	RES. C.F. 10 OHM 1/6W +/-5%	1	R12	
18-CB0102-JNX	RES. C.F. 1K OHM 1/6W +/-5%	1	R8	
18-CB0331-JNX	RES. C.F. 330 OHM 1/6W +/-5%	1	R10	
14-LED03R-XX0	LED RED HFR303J(R)(3mm)	1	D2	
11-IRR001-3X0	IR RECEIVER MODULE HK381A	1	IR01	
11-C144ES-08X	TRANSISTOR PDTC144ES (NPN)	1	Q1	
08-L2026S-FBY	ASS'Y - FRONT CTL BD	1		
47-EAR002-XX0	EARPHONE SOCKET CK3-3.5-9WK-B	1	P3	
46-35135W-02X	PIN BASE PH-02AW	1	P2	
48-POW022-XX0	POWER SUPPLY SWITCH PS2E-B	1	SW7	
26-ABC222-KBX	CAP. CER 2200 PF 50V +/-10% B	1	C11	
26-ABC222-KBX	CAP. CER 2200 PF 50V +/-10% B	1	C12	
41-WJ0110-B00	WIRE BARE JUMPER 11MM	1	J11	
41-WJ0110-B00	WIRE BARE JUMPER 11MM	1	J12	

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Item No.	Description	Quantity	Designator	Remarks
41-WJ0110-B00	WIRE BARE JUMPER 11MM	1	J14	
41-WJ0060-B00	WIRE BARE JUMPER 6mm	1	J13	
40-LS2026-KEB	P.C.B. KEY BD	1		
46-CC075T-04G	HS 2P 1185#26 750MM TJC3-4Y/TJC3-4Y	1		• • • P1• • • • F3• • •
46-27626W-04X	PIN BASE *4 TJC3-4AW	1	P1	
18-CB0331-JNX	RES. C.F. 330 OHM 1/6W +/-5%	1	R11	
18-CB0331-JNX	RES. C.F. 330 OHM 1/6W +/-5%	1	R12	
26-ABC103-ZFX	CAP. CER 0.01 UF 50V +80-20% F	1	C13	
26-ABC103-ZFX	CAP. CER 0.01 UF 50V +80-20% F	1	C14	
46-27626W-02X	PIN BASE *2 TJC3-2A (HORIZON)	1	P4	
46-27626W-02X	PIN BASE *2 TJC3-2A (HORIZON)	1	P5	

4. Alignment Procedure

SUMMARIZATION:

The panel in this model is LG PHILIPS 20.1' LC201V02, max-luminance is at 450 cd/m^2. Analog parts adopt VCT3834A with Teletext function, inner multi-system Comb-filter, MCU and TCU for Teletext, extra 4M Flash EEPROM and 4M SRAM Teletext EEPROM. IF Amplifier adopts TDA9886T Multi-system PLL, MSP3411G for Nicam, and FS European Frequency which supports PAL DK BG I, SECAM BG/DK, SECAM L system. Digital parts adopts SAGE Project, Scaller chip which supports VGA/DVI input in main chassis part. TV input channel adopts AD9883A+FLi2200 to support A/D switches and Deinterlace Progressive processing. INVERTER comprises by +12V power suppliers and signal switching controller.

ALIGNMENT INSTRUCTION:

1. Adjustment of Analog Chassis Parts

In 20.1 inch LCD TV, Analog Chassis Parts are comprised of three main boards:

A. Main-signal Processing Board, which is including Video, Audio, Code, and Teletext process of sub-signal, Board named: 40-LD1526-SA* (* =A. B. C. D. .....)

B. IF Amplifier Board, named: 40-LS3026-TU* (* =A. B. C. D. .....)

C. Power Board, named: 40-LD1526-PW* (* =A. B. C. D. .....)

I> Checking of IF Amplifier Board

Procedures:

1. Connecting IF Amplifier Board (without shield cover) to S601 in Analog Board via VGA.

2. Switching on the Displayer, + 5V red light will be on in RC receiving board. Press "Standby" in RC, the red light will be off. Applying Factory Signal to see whether the sound, Nicam, and searching channel are OK.

3. Pressing i key in RC to enter into User Menu, pressing pin 6 4 0 5 keys to Factory Menu, and select AGC Menu. Setting switching mode to NORMAL, AGC to 14, pressing "EXIT" to exit.

4. Switching off the Displayer. Taking out IF Amplifier, and soldering shield cover.

II> Checking of Analog Main Board

Procedures:

1. Inserting P1, P2, P14 in Digital Board to P1001, P1002 and P5540 in Analog Board, Inserting P25 in Digital Board to P1 in RC recieveing BOARD, Inserting P24in Digital Board to P1004, Inserting F403 ,F401 in power board to P5803,P5802 in Analog Board, Inserting F3 in Power board to P1 in Front control board .

2. Connecting Computer to S5504 via COM connector, turning off the reset switch in the connector.

3. A. Setting PC mode in Digital Board;
   B. Switching on the unit with RC;
   C. After Screen is on, running FLASH PROGRAM for 2 seconds in Computer Communication Program;
   D. Turning on the reset switch in the connector, then carrying out the program to burn.

4. After burned, please take out the S5504 connector.
   Switching off→Reset→power on with RC, pressing "0" key and "OK" key to enter TV mode, the Noise Signal will be displayed, press i in RC to enter into User Menu, and setting OSD to ENGLISH.

5. Pressing "OK" to save and exit.

6. Pressing "i" and "CH-" to enter into PROGRAM menu, pressing "CH-"to select "SEARCH >", and pressing "VOL +" to searching channels. Press EXIT to exit when finished.

7. Checking all channels to see whether the sound and picture are OK or not. Signal should be switched after applying SCART signal. Input and output function should be checked in SCART 1. There is not output function in SCART 2. (0 key in RC to open menu, "V" key to OK)

2. Adjustment of Digital Board

Procedures:

1. A. Inserting P1 (8pins) in Digital Board to P1001 in Analog Board;
   B. Connecting P14 in Digital Board to P5540 in Analog Board via 10Pins Line;
   C. Connecting P24 in Digital Board to P1004 in Power Board via line;
   D. Inserting INVERTER switch Plug to P7;
   E. Connecting P2 in Digital Board to P1002 in Analog Main Board via line;
   F. Connecting F403 in Power Board to P5803 in Analog Board

2) Inserting DC Plug in Extra Power Supplier to P22 in Digital Board, turning on the main power switch to electrify CPU (3.3V) in Digital Board;

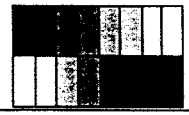
3) A. Switching on the Unit using RC;
   B. Electrifying Analog Board with 12V, (+5V) to IC JAGASM in Digital Board simultaneously;
   C. After several seconds, sound and picture will be OK. (TV mode is default mode without SCART Signal)

4) Applying TV signal (Gray Scale and Color Bar Signal), pressing "0", "6", "4", "0", "5" in

RC, the AD9883 menu will be displayed, please setting the data as following:

R	97
G	98
B	98
BRIG	170
CON	65

For reference only.
(As different screen, the data are different, please setting the data to make the Gray Scale normal.)



Gray scale and color bar signal

Pressing• EXIT• to exit•

5) •1 • Applying VGA signal, press • 0• in RC to choose PC mode and pressing "OK" to confirm. Switching to VGA mode and selecting VGA to Gray 16 Scales.

•2 • Pressing "0", "6", "4", "0", "5" in RC to enter into Factory Mode, setting the data as below:

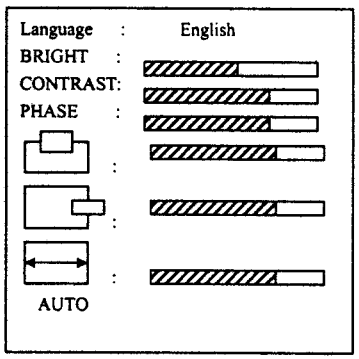
JAGASM of VGA:

R	93
G	103
B	98
BRIG	180
CON	65

For reference only.
(As different screen, the data are different, please setting the data to make the Gray Scale normal.)

Pressing• EXIT• to exit• •

•3 • Pressing • i• • in RC to enter into the User menu to setting the following items when applying VGA signal:



Gray 16 Scales
Brightness• 55%, Max-Dark Scale is Black
Contrast• 75%, Max-Bright Scale isn't over loading
A/D Phase• No adjusting ripple

Vertical Center: (fluctuant Symmetry• •

Horizontal Center: (Right and Left Symmetry• •

Horizontal Breadth• Obtain the edge exactly with Cross signal

Pressing "OK" to save and• EXIT• to exit• •

* Note: Best Resolution• 640X480 60Hz mode.

6) DVI checking

Procedures• •

•1 • Inserting DVI plug into P10 in Digital Board• •

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•2 • Pressing • 0• in RC to enter into signal menu, pressing "CH+/CH-" to choose "DVI" and "OK" to enter into DVI mode• •

•3 • Applying the kinds of testing signal, whether they all can be identified and the output are normal in DVI signal sources• •

•4 • Entering into main signal menu and setting into the "TV" mode• •

•5 • Taking out DVI plug and shutting off AC power supply.

3. Adjustment of Complete LCD TV

Procedures• •

I> Adjustment of AGC

•1 • Power on the Unit and applying the TV signal sources.

TV signal sources setting as below• •

f=48.25MHz
System: PAL B/G
Signal• Full color bar
Intension• 65dB• •

•2 • Pressing • i• key in RC to enter into User Menu, pressing pin • 6•• •4•• •0•• •5• keys to Factory Menu, pressing◀◀ key to select item, "V+& V-" to adjust the data.
Setting AGC data to 14 to obtain the Noise of Screen Signal is at minimum.
DVSS: ON

•3 • Setting BURN IN at On (Analog Board is on when no signal)

LCD TV TCL Ver.	1.22D/25 /10/2003 (Update irregularly)
Auto Format	ZOOM
Tuner AGC	14
Transparent OSD	66
DVSS	ON
Burn-in Mode	ON
Min.volume.1%	46
Sound curve.10%	70
Sound curve.20%	76
Sound curve.40%	90
Sound curve.80%	110
Sound curve.100%	124

•4 • Pressing• EXIT• to exit.

II> Adjustment of White Balance in VGA mode

•1 • Applying VGA signal, 640 x 480 60Hz, switching signal source to PC mode, 9300K.

•2 • Choosing White Signal, using Color Temperature Instrument or White Balance Instrument to test the color coordinate.

•3 • Pressing"0", "6", "4", "0", "5" key in RC to enter into Factory Mode, pressing "CH+, CH-" to select item, "V+, V-" to adjust R• G• B data to obtain x=284±15• • Y=299±15• •

•4 • 7000K X=305±15• Y=320±15
•5 • 7500K X=299±15• Y=315±15

III> AUTO Adjustment of User Setting in VGA mode

•1 • Applying Square Signal, pressing • i• key in RC to enter into User Menu.
•2 • Pressing "CH+, CH-" to select "AUTO" item, and "V+" to active the auto adjustment then screen will be dark instantly. If finished, screen will be ok automatically.
•3 • If auto adjustment lost or some disturb/noise in screen, please adjust PHASE by manual.
Applying signal modes• •
640 X 480 (60, 72, 75, 85Hz)
720 X 400 (60, 70Hz)
800 X 600 (60, 75, 85Hz)
1024 X 768 (60, 75Hz)

To do the checking and auto adjustment separately when applying the kinds of signals, if no problem exists, it is unnecessary to adjust the data in EEPROM.

IV> Adjustment of White Balance in TV mode.

•1 • Applying SCART White Signal, using White Balance Instrument to test.
•2 • Pressing "0", "6", "4", "0", "5" key in RC to enter into Factory Mode, pressing "CH+, CH-" to select item, "V+, V-" to adjust R• G• B• data to obtain X=0.284, Y=0.299, color temperature: 9300, Luminance> 350cd.
•3 • Pressing• EXIT• to exit.

• ➢ Checking Complete LCD TV

•1 • Applying TV signal to check whether AGC can work normal.• 40~100dB TV signal).
If AGC is abnormal, please do fine tuning.
(If overloading, please lower AGC Value)
•2 • Applying SCART signal to check whether the input and output of SCART can work normal in R• G• B• Y/C• SCART, 16:9 4:3 mode.
•3 • Applying VGA signals to checking:
640 X 480 (60, 72, 75, 85Hz)
720 X 400 (60, 70Hz)
800 X 600 (60, 75, 85Hz)
1024 X 768 (60, 75Hz)

•4 • Checking PIP in TV Signal (VGA mode)
a. Pressing • 0• • to choose PC mode and• OK• to enter into VGA mode, applying VGA signal.
b. Pressing "|▷" key in RC to active PIP function, pressing this key continuously to scale up the PIP picture and disappeared circularly , there are four scales.

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c. Pressing " ◁◀ " key to locate the PIP picture from Top-left, Top-right, Bottom-right, Bottom-left and center circularly.
d. Pressing "|▷" key in RC to close the PIP when the picture is in largest scale.
d. Press Green Key in RC can switch the PIP signal source.

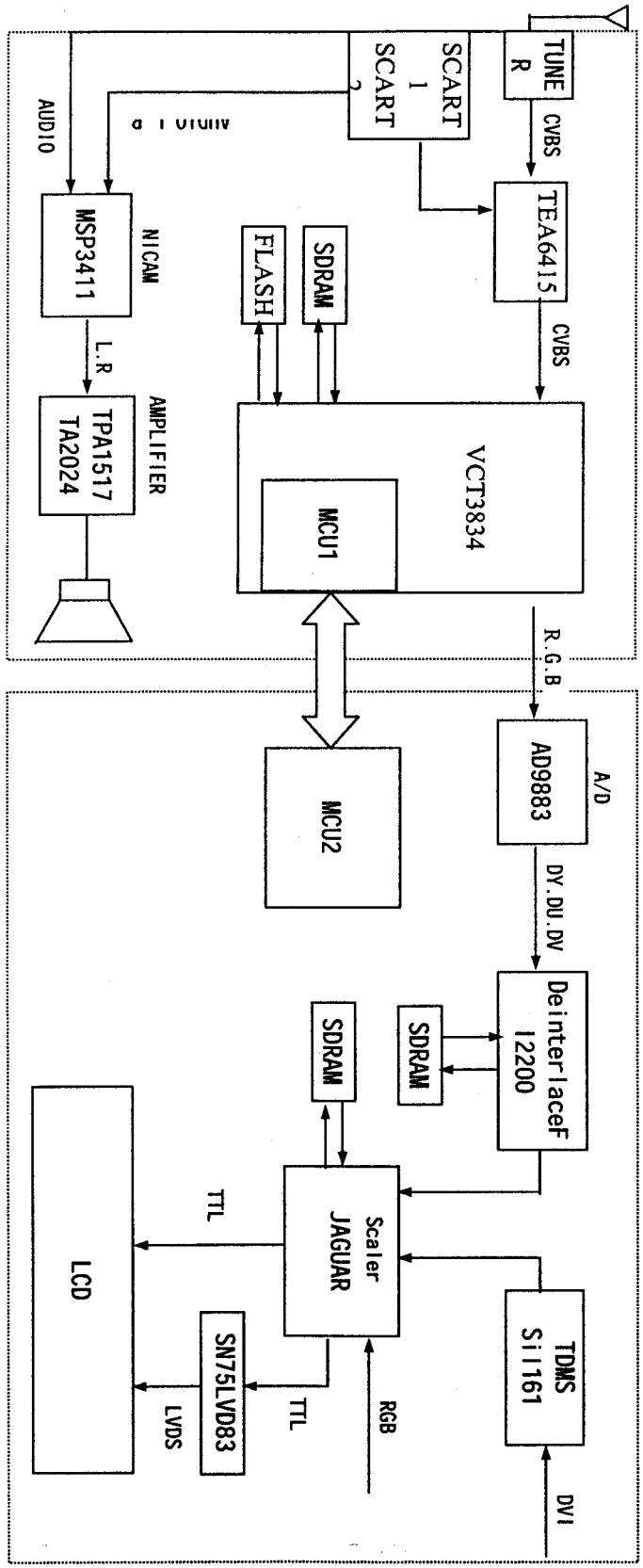
•5 • Checking PIP in DVI mode
Pressing • 0• • to choose PC mode and• OK• to enter into VGA mode.
Repeat •4 • to check PIP scale and location.

•6 • Safety Checking
a. AC 3000V; b. Resistance> 4MΩ

•7 • Default data setting:
Applying factory signal, setting the data to default when in best picture, best sound and so on.

Picture Default Value setting: (Only for reference)				Sound Default Value setting: (Only for reference)	
	TV/SCART	RGB	VGA	Volume	35
Brightness	50%	55%	40%	Treble	50
Contrast	70%	40%	75%	Base	50
Color	50%	Location: 30%		Balance	Center
Contour	20%			Base	Normal
Tone	Center			AVC	off

5. BLOCK DIAGRAM



IC701

VCT3834A

VCT3834A

IC702

M29W400BT90M1

8X512K

IC703

K6T4008V1C-GB70 SDRM

M29W400 FLASH

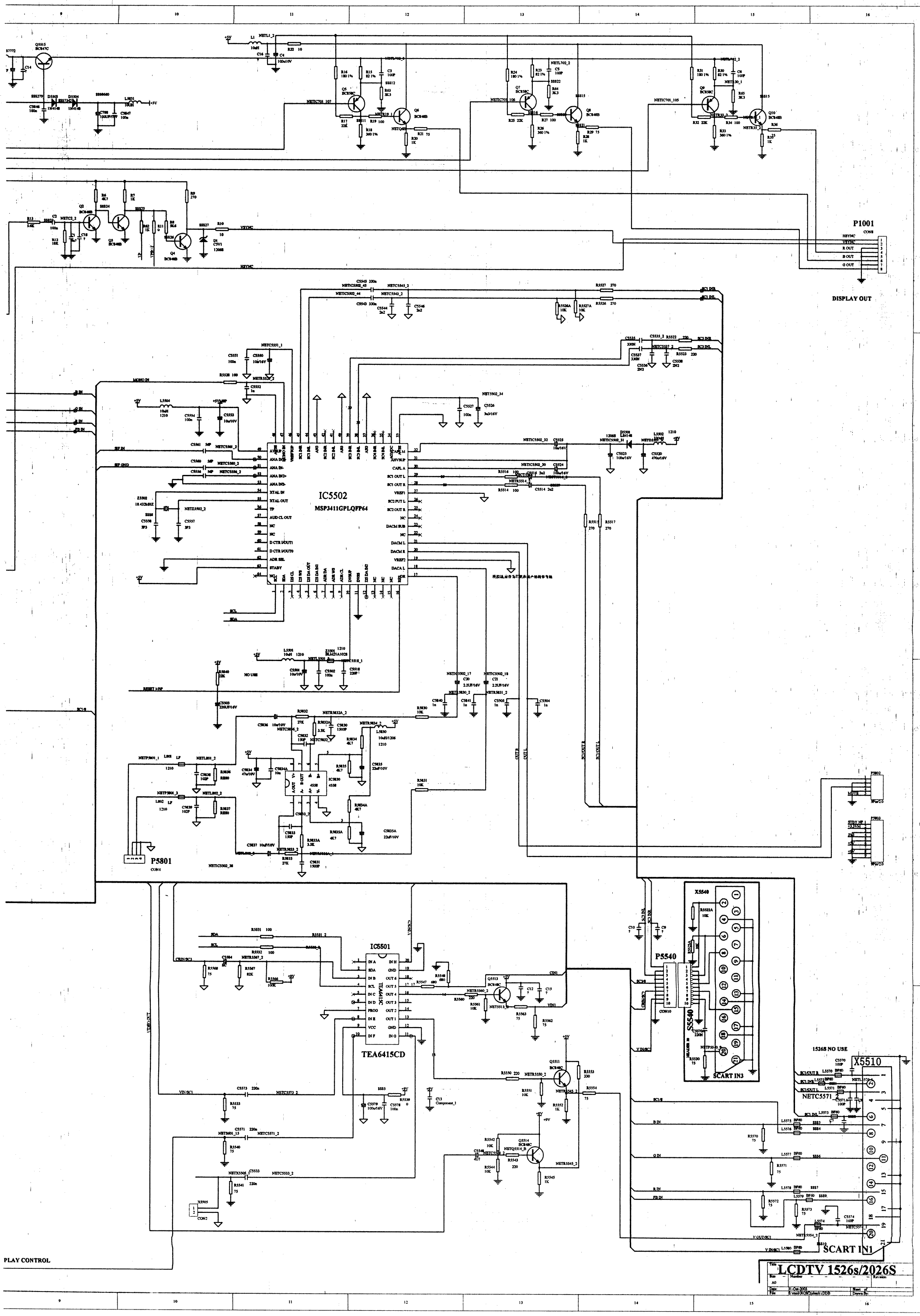
TUNER BOX

DC-DC33V

SOFT LOAD PORT

RJ45

DISPLAY CON


IC5502
MSP3411GPLQFP64
IC5501
TEA6415CD
P5801
P5540
X5540
SCART IN3
X5510
SCART IN1
P1001
DISPLAY OUT
1526S NO USE
PLAY CONTROL
LCDTV 1526s/2026S

LCD MONITOR TV LCD26S series

VER2.0 2003.7.3

Status:V2.0 20030815

Title	LCD3026		
Size: Custom	Document Number: <Doc>		Rev: <RevCode>
Date: Monday, November 03, 2003		Sheet 1 of 17	

LM1117MPX-3.3
SOT223

+5V FB2 LM1117MPX-3.3 U1 IN GND OUT TAB
C4 10uF/16V C2 10uF/16V
3.3V 22uF/16V C1 PVDD
R1 3.3 C3 0.1uF C216 0.1uF
PVDD C6 3.9nF 39nF C5 open C179 R2 3.3K
3.3AN CX5 CX
R3 10K AD_VS
C8 0.1uF R6 10K PVDD
C15 C16 C17 C18 0.1uF 0.1uF 1nF 1nF
C9 C10 C11 C12 C13 C14 0.1uF 0.1uF 0.1uF 1nF 1nF 1nF

HSYNC FB3 R4 4.7K C7 47pF AD_HS R233 3.3 2200_HS 4

9332-9883
P1
HS VS GND V GND U GND Y
JST-S8B-PH-K
VSYNC

R100 open C21 4.7pF R7 120 L2 3.3uH C93 270pF C20 47nF
R99 open C23 4.7pF R8 150 L3 3.3uH C92 560pF C22 47nF
R98 open C25 4.7pF R11 150 L4 3.3uH C175 560pF C24 47nF
R9 10K R10 10K C26 0.1uF C19 0.1uF C27 C28 C29 C30 C31 C32 C33 C34 0.1uF 0.1uF 0.1uF 0.1uF 0.1uF 0.1uF 0.1uF 0.1uF

AD9883 U3
LQFP80
AD9883

RP1 22Rx4 DU0 DU1 DU2 DU3 RP2 22Rx4 DU4 DU5 DU6 DU7 DU[0..7] DU[0..7] 4
RP3 22Rx4 DY0 DY1 DY2 DY3 RP4 22Rx4 DY4 DY5 DY6 DY7 DY[0..7] DY[0..7] 4
RP5 22Rx4 DV0 DV1 DV2 DV3 RP6 22Rx4 DV4 DV5 DV6 DV7 DV[0..7] DV[0..7] 4

3,10,14 MC_SCLK MC_SCLK R12 1k
3,10,14 MC_DATA MC_DATA R13 1k

P25
Intr_main# GND 2596_on/light pwr_ctl
4pin
R502 470 R501 0 INTR_Main# 14
R201 0 or Open light 14,15
+3.3V_MCU
C502 C503 47pF C504 47pF C505 47pF C506 47pF

FB7 AD_VS AD_VS 4
R14 4.7K C35 47pF

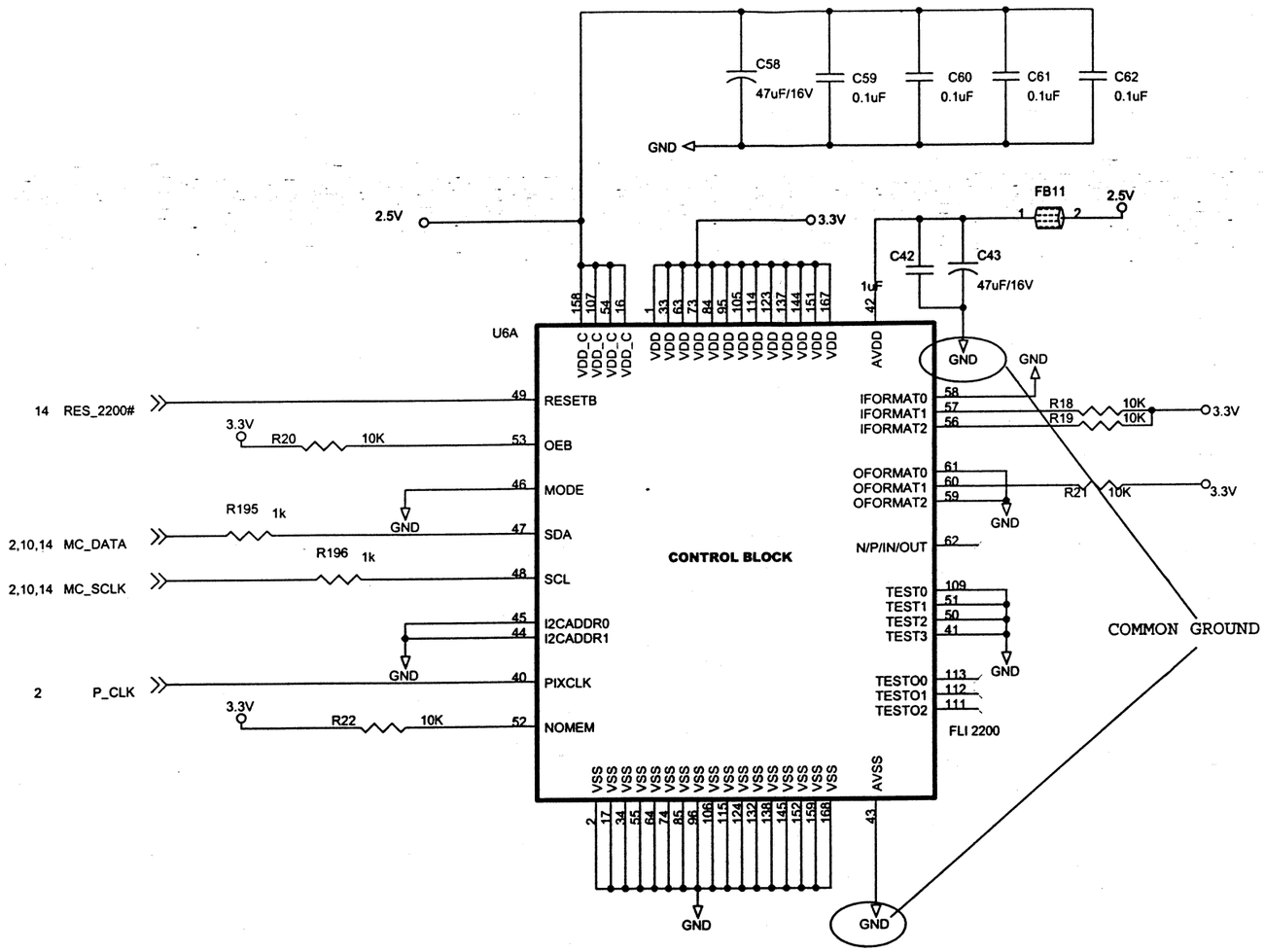
22R R15 P_CLK 3
4.7k R197 2200_HS 4
4.7k R198
C37 open

I2C Com port with Analog_board
P2
SCL 2596_ON_ SDA GND I/O1
JST-S8B-PH-K
R199 1k SCL2 SCL2 14
R200 1k SDA2 SDA2 14
R5 0 GND
REST_Analog 2

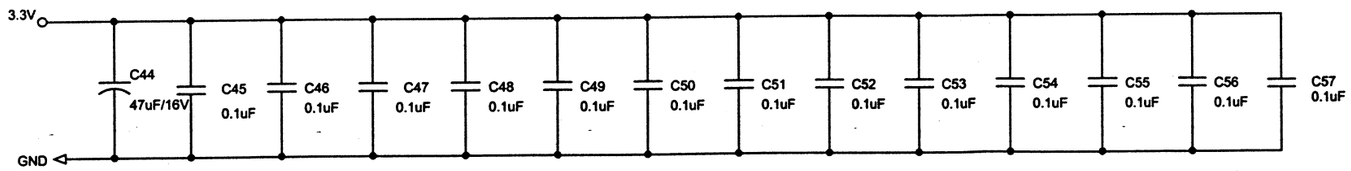
+3.3V_MCU R94 4.7K R93 4.7K
MC_SCLK 3,10,14
MC_DATA 3,10,14

J2 CN2
C499 47pF C500 47pF

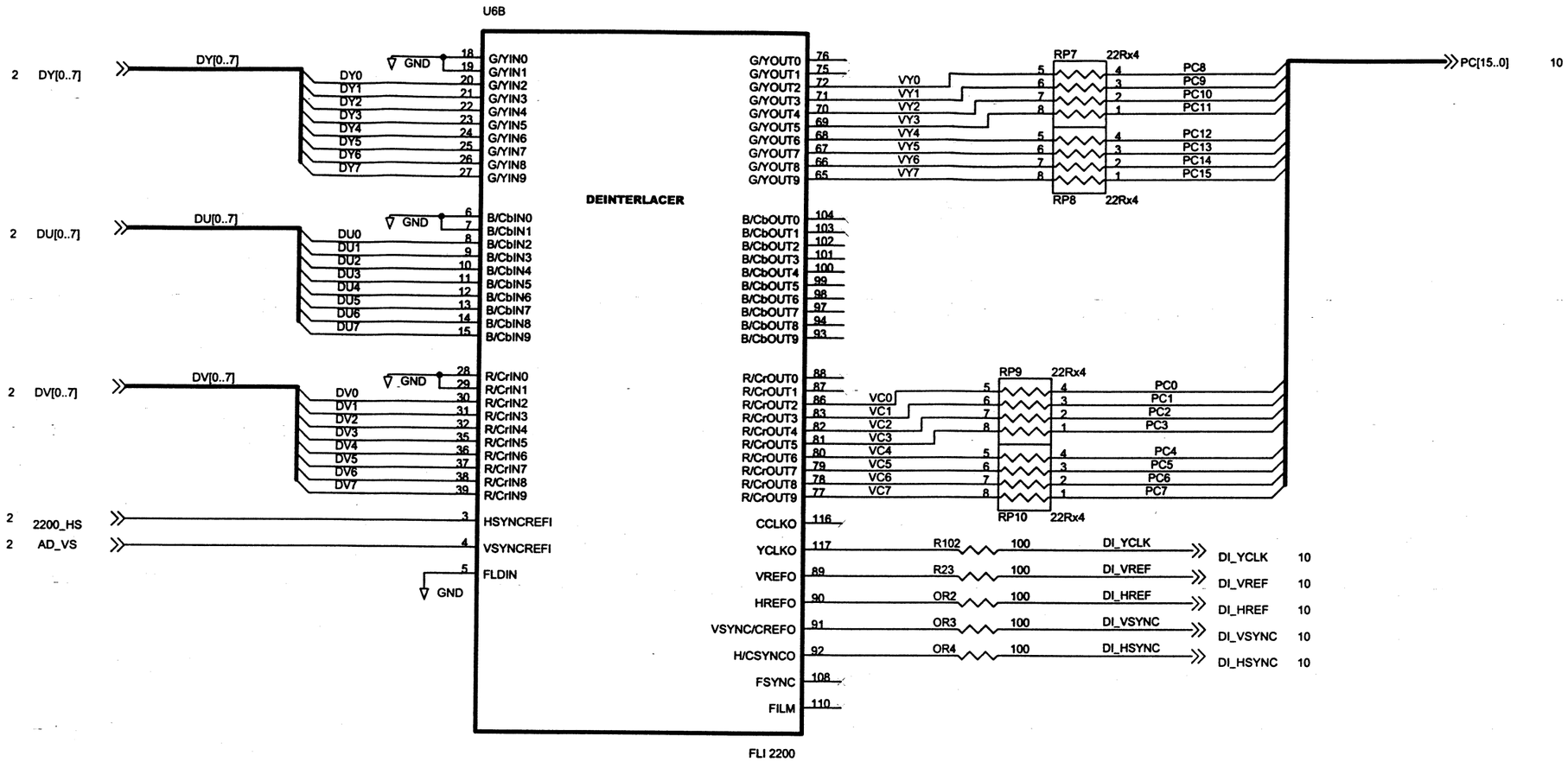
Title	AD9883 INTERFACE	
Size	Document Number	Rev
Custom	<Doc>	0.6
Date:	Sheet 2 of 17	



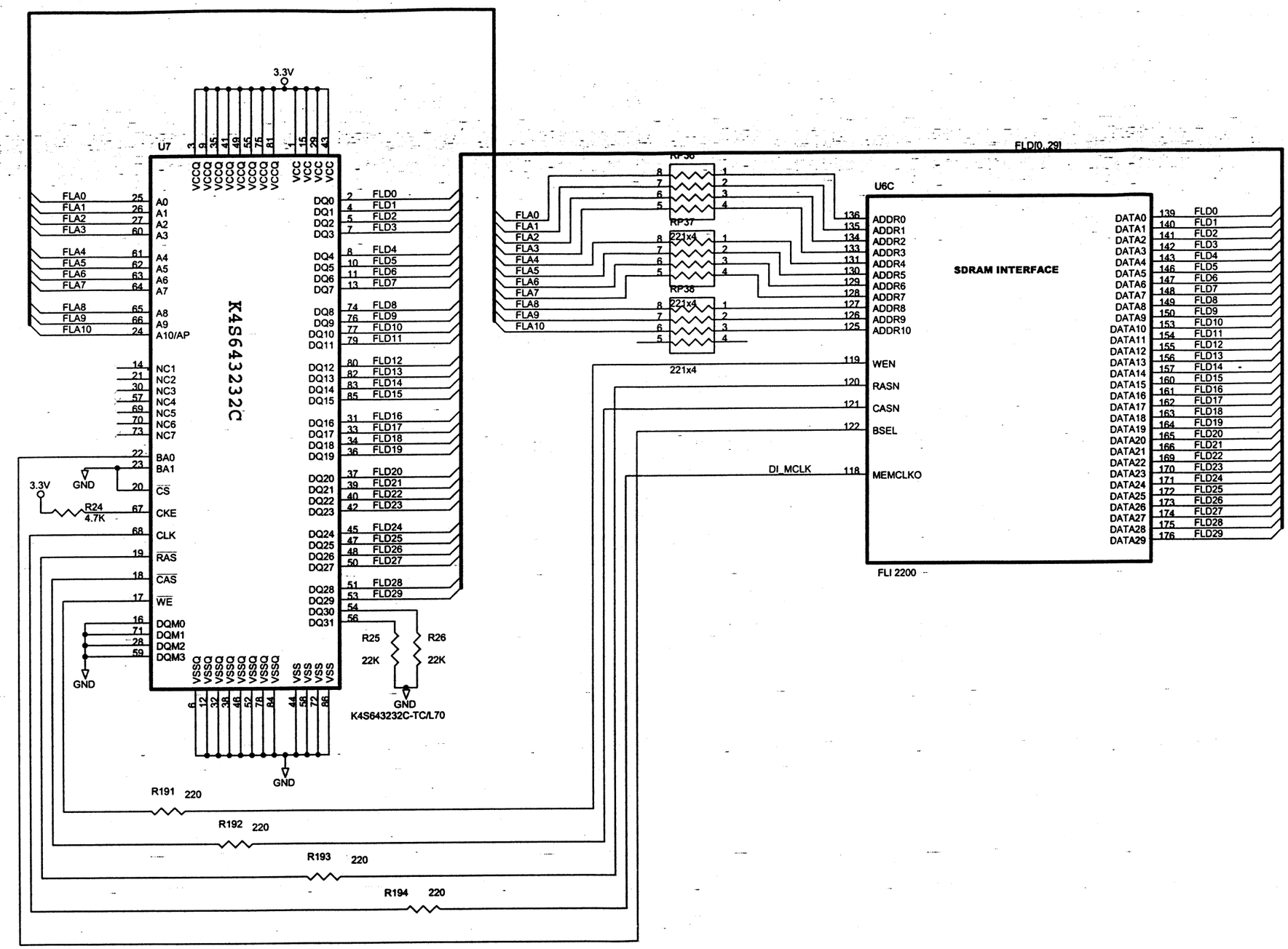
DECOUPLING FOR FLI2200

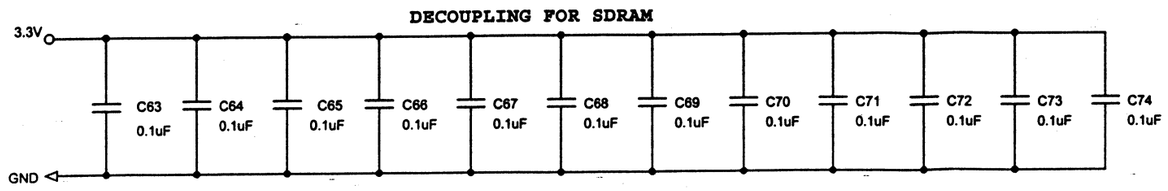


Title	FLI2200 CONTROL INTERFACE
Size	Custom
Document Number	<Doc>
Rev	<RevCode>
Date:	
Sheet	3 of 17



Title	FLI2200 INTERFACE	
Size: Custom	Document Number: <Doc>	Rev: <RevCode>
Date:	Sheet 4 of 17	





Title	FLI2200 SDRAM INTERFACE	
Size	Document Number	Rev
Custom	<Doc>	<RevCode>
Date	Sheet 5 of 17	

TO JAGASM ADC

VGA

P11

MH1

MH2

ASTRON HDB600-15

CUT IN GND PLANE AND JOIN NEAR JAG

BAV99 FOOTPRINT

RED1 — FB55 — C75 — R28 75 1% — C76 2.2pf — ARED1P 7

R29 75 1%u

RED-GND — R30 0R — ARED1N — ARED1N 7

GREEN1 — FB56 — C77 — R32 75 — C78 2.2pf — AGREEN1P 7

R33 75 1%u

GREEN-GND — R34 0R 1% — AGREEN1N — AGREEN1N 7

BLUE1 — FB57 — C79 — R36 75 1% — C80 2.2pf — ABLUE1P 7

R37 75 1%u

BLUE-GND — R38 0R — ABLUE1N 7

R211 0

R209 0

R210 0

GND

VGA		
RED	1	RED1
GREEN	2	GREEN1
BLUE	3	BLUE1
ID2	4	
GND	5	GND
RGND	6	
GGND	7	
BGND	8	
VCC	9	VGA_+5V
GND	10	
ID0	11	
DDDA(ID1)	12	DDDA
HSYNC	13	PHSI1 — FB12
VSYNC	14	PVSI1 — FB12
DDCK(ID3)	15	DDCK — FB13
	16	

D1 D2 D3 D4 BAV99 — A+5V

CUT IN GND PLANE AND JOIN NEAR ANALOG POWER SUPPLY

GND

R44 100R — VGA_HSYNC 10

R45 100R

R46 100R — VGA_VSYNC 10

R47 100R

R48 1K — GND

R49 1K — GND

C85 100pf — GND

C86 100pf — GND

D7 BAT54C/BAV70 SOT23 — VGA_+5V — +5V

R50 10K

C87 0.1uF — GND

R51 10K

R52 10K

U8 EDID DATA ST24FW21

WC VCC SDA NC1 DDC SCL NC2 GND VCLK

GND

R231 10K — R232 10K — R236 10K — GND

RED1 — D10 BAV99 — GND — A+5V

GREEN1 — D11 BAV99 — GND — A+5V

BLUE1 — D12 BAV99 — GND — A+5V

Title	VGA CONNECTOR	
Size Custom	Document Number <Doc>	Rev <RevCode>
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2.5V ANALOG POWER

C454 10pF
C89 1nF
FB16
3.3V
GND
U10
NVD
G O
14.318MHz OSC
22R
R53
C94 10pF
GND
R217 R

+5V
FB15
LM1117MPX-2.5
U9
IN GND OUT TAB
C90 10uF/16V
C91 10uF/16V
FB14
JA2.5V1
FB17
JA2.5V2

UNDER THESE LINES GND PLANE MUST BE CUT FROM VGA AS SHOWN ON VGA SHEET.

FB18
+5V
A+5V

U11D
JAGUAR - ANALOG

XIN XOUT

R2N R2P G2N G2P B2N B2P
R1N G1N B1N
I1 I2
RREFH RREFL GREFH GREFL BREFH BREFL IREFH IREFL

6 ARED1N
6 ARED1P
6 AGREEN1N
6 AGREEN1P
6 ABLUE1N
6 ABLUE1P

IVDD2 IVDD1 RVDD2 RVDD1 GVDD2 GVDD1 BVDD2 BVDD1
C96 1nF
C98 0.1uF
C99 0.1uF
C100 0.1uF
C101 0.1uF
C102 1nF

IVSS2 IVSS1 RVSS2 RVSS1 GVSS2 GVSS1 BVSS2 BVSS1
QUIET ANALOG GND

SVSS SVDD AVSS1 AVDD1 AVDD2 AVSS2
R54 10R
R55 10R
C103 1nF
C104 10uF/16V
C105 1nF
C106 4.7uF/16V
CAPTURE PLL GND

CVSS2 CVSS1 CVDD2 CVDD1
C107 0.1uF
C109 1u
R212 47
C108 0.1uF
C110
R56 47

AVDD3 AVDD4
C111 0.1uF
C112 1u
R57 10

DVDD DVSS XVSS XVDD
FB19
C113 0.1uF
C114 10uF/16V
FB20
C115 0.1uF
C116 10uF/16V

VDDP1 VDDP2 VSSP1 VSSP2 PVSS1 GPVSS PVDD1 GPVDD
FB21
FB22
C117 1nF
C118 0.1uF
C119 0.1uF
C120 0.1uF
C121 1u
DIGITAL PLL GND

PLACE NEAR LM1117-2.5

Title	JAGUAR ANALOG INTERFACE
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Document Number	
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JAGUAR - SDRAM

SD[63..0] >> SD[63..0] 9

3.3V

C122 0.1uF, C123 0.1uF, C124 0.1uF, C125 0.1uF, C126 0.1uF, C127 0.1uF

GND

2.5V

FB23

C128 0.1uF, C129 0.1uF, C130 0.1uF, C131 0.1uF

GND

U11B

JAGUAR

A26	J26	N26	U26	Y26	AE26	D23	K23	T23	AB23	D21	
VDD	VDD	VDD	VDD	VDD	VDD	VDDC	VDDC	VDDC	VDDC	VDDC	

SD0	AD22	SDD00	SDD63	A25	SD63
SD1	AE22	SDD01	SDD62	A24	SD62
SD2	AC23	SDD02	SDD61	B26	SD61
SD3	AD23	SDD03	SDD60	B25	SD60
SD4	AE23	SDD04	SDD59	B24	SD59
SD5	AC24	SDD05	SDD58	B23	SD58
SD6	AD24	SDD06	SDD57	C26	SD57
SD7	AE24	SDD07	SDD56	C25	SD56
SD8	AE24	SDD08	SDD55	C24	SD55
SD9	AC25	SDD09	SDD54	C23	SD54
SD10	AD25	SDD10	SDD53	D26	SD53
SD11	AE25	SDD11	SDD52	D25	SD52
SD12	AE25	SDD12	SDD51	D24	SD51
SD13	AD26	SDD13	SDD50	E26	SD50
SD14	AE26	SDD14	SDD49	E25	SD49
SD15	AB24	SDD15	SDD48	E24	SD48
SD16	AB25	SDD16	SDD47	E23	SD47
SD17	AB26	SDD17	SDD46	F25	SD46
SD18	AA23	SDD18	SDD45	F24	SD45
SD19	AA24	SDD19	SDD44	F23	SD44
SD20	AA25	SDD20	SDD43	G26	SD43
SD21	AA26	SDD21	SDD42	G25	SD42
SD22	Y23	SDD22	SDD41	G24	SD41
SD23	Y24	SDD23			
SD24	Y25	SDD24	SDD40	H26	SD40
SD25	W24	SDD25	SDD39	H25	SD39
SD26	W25	SDD26	SDD38	H24	SD38
SD27	W26	SDD27	SDD37	H23	SD37
SD28	L23	SDD28	SDD36	J25	SD36
SD29	L24	SDD29	SDD35	J24	SD35
SD30	L25	SDD30	SDD34	J23	SD34
SD31	K24	SDD31	SDD33	K26	SD33
			SDD32	K25	SD32

SA0	V23	SDA0	DQS	M25	
SA1	V24	SDA1	BANK	M24	SBA#
SA2	V25	SDA2	DQM	M23	SDQM
SA3	V26	SDA3	SDCS0	M26	SCS#
SA4	U23	SDA4	SDCKN	P23	
SA5	U24	SDA5	SDRAS#	P24	SRAS#
SA6	U25	SDA6	SDWE#	R25	SWE#
SA7	P25	SDA7	SDCKE	R24	SCKE
SA8	P26	SDA8	SDCAS#	T26	SCAS#
SA9	N24	SDA9	SDCKP	R23	SCLK
SA10	N25	SDA10	SDCKFB	T25	
			MEMCLK	T24	

VSS	VSS	VSS	VSS	VSS	VSS	VSSC	VSSC	VSSC		
A23	E26	L26	R26	AC26	AE23	G23	N23	W23		

GND GND

R190 4.7k

GND

TSA1 8 1 SA1
TSA0 7 2 SA0
TSA2 6 3 SA2
TSA3 5 4 SA3
22RX4 RP11

TSA5 8 1 SA5
TSA4 7 2 SA4
TSA6 6 3 SA6
5 4
22RX4 RP13

TSA8 8 1 SA8
TSA7 7 2 SA7
TSA10 6 3 SA10
TSA9 5 4 SA9
22RX4 RP15

TSA[10..0] >> TSA[10..0] 9

SDQM 8 1 TSDQM >> TSDQM 9
SBA# 7 2 TSBA0 >> TSBA0 9
SCS# 6 3 R58 0R >> TSCS# 9
5 4 R59 0R >> TSBA1 9
OR6 open
22RX4 RP12

SRAS# 8 1 TSRAS# >> TSRAS# 9
SWE# 7 2 TSWE# >> TSWE# 9
SCKE# 6 3 >> TSCKE 9
SCAS# 5 4 TSCAS# >> TSCAS# 9
22RX4 RP14

R60 22R TSCLK >> TSCLK 9

Title	JAG SARAM INTERFACE	
Size: Custom	Document Number: <Doc>	Rev: <RevCode>
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8 SD[63..0] SD[63..0]

8 TSA[10..0] TSA[10..0]

3.3V

U12

K4S643232C

TSA0 TSA1 TSA2 TSA3 TSA4 TSA5 TSA6 TSA7 TSA8 TSA9 TSA10

A0 A1 A2 A3 A4 A5 A6 A7 A8 A9 A10/AP

NC1 NC2 NC3 NC4 NC5 NC6 NC7

BA0 BA1 CS CKE CLK RAS CAS WE

DQM0 DQM1 DQM2 DQM3

DQ0 DQ1 DQ2 DQ3 DQ4 DQ5 DQ6 DQ7 DQ8 DQ9 DQ10 DQ11 DQ12 DQ13 DQ14 DQ15 DQ16 DQ17 DQ18 DQ19 DQ20 DQ21 DQ22 DQ23 DQ24 DQ25 DQ26 DQ27 DQ28 DQ29 DQ30 DQ31

SD0 SD1 SD2 SD3 SD4 SD5 SD6 SD7 SD8 SD9 SD10 SD11 SD12 SD13 SD14 SD15 SD16 SD17 SD18 SD19 SD20 SD21 SD22 SD23 SD24 SD25 SD26 SD27 SD28 SD29 SD30 SD31

VCCQ VCC VSSQ VSS

K4S643232C-TC/L70

R61 10k

GND

U13

K4S643232C

TSA0 TSA1 TSA2 TSA3 TSA4 TSA5 TSA6 TSA7 TSA8 TSA9 TSA10

A0 A1 A2 A3 A4 A5 A6 A7 A8 A9 A10/AP

NC1 NC2 NC3 NC4 NC5 NC6 NC7

BA0 BA1 CS CKE CLK RAS CAS WE

DQM0 DQM1 DQM2 DQM3

DQ0 DQ1 DQ2 DQ3 DQ4 DQ5 DQ6 DQ7 DQ8 DQ9 DQ10 DQ11 DQ12 DQ13 DQ14 DQ15 DQ16 DQ17 DQ18 DQ19 DQ20 DQ21 DQ22 DQ23 DQ24 DQ25 DQ26 DQ27 DQ28 DQ29 DQ30 DQ31

SD32 SD33 SD34 SD35 SD36 SD37 SD38 SD39 SD40 SD41 SD42 SD43 SD44 SD45 SD46 SD47 SD48 SD49 SD50 SD51 SD52 SD53 SD54 SD55 SD56 SD57 SD58 SD59 SD60 SD61 SD62 SD63

K4S643232C-TC/L70

TSBA0 8
TSBA1 8
TSCS# 8
TSCKE 8
TSCLK 8
TSRAS# 8
TSCAS# 8
TSWE# 8
TSDQM 8

DECOUPLING FOR SDRAMS

3.3V

C132 0.1uF C133 0.1uF C134 0.1uF C135 0.1uF C136 0.1uF C137 0.1uF C138 0.1uF C139 0.1uF C140 0.1uF C141 0.1uF C142 0.1uF C143 0.1uF

GND

3.3V

C146 0.1uF C147 0.1uF C148 0.1uF C149 0.1uF C150 0.1uF C151 0.1uF C152 0.1uF C153 0.1uF C154 0.1uF C155 0.1uF C156 0.1uF C157 0.1uF

GND

3.3V C144 22uF/16V GND

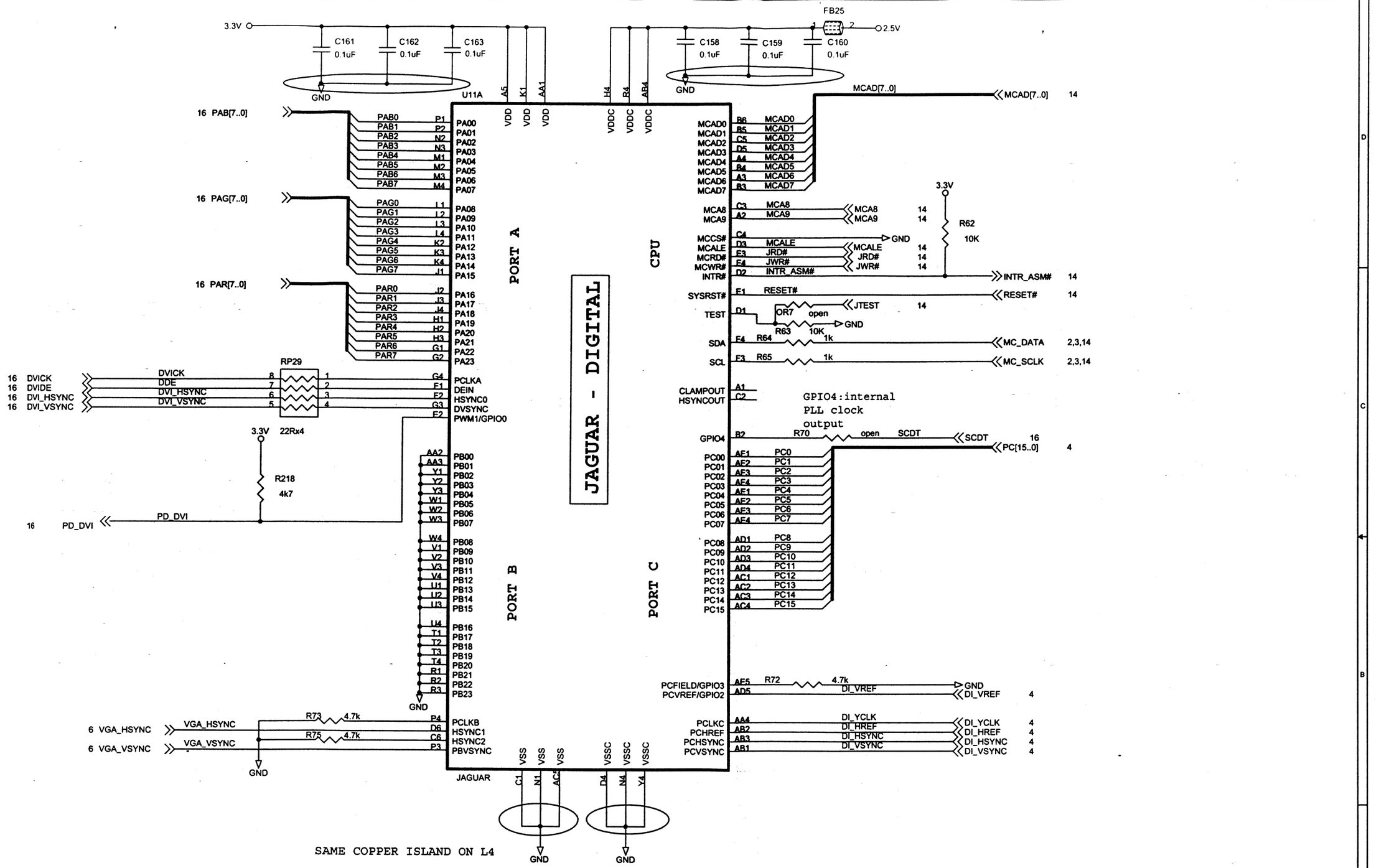
3.3V C145 22uF/16V GND

3.3V FB80 FB81 FB82 FB83

Title: SDRAM BASED FRAM BUFFER

Size: Custom | Document Number: <Doc> | Rev: 0.6

Date: | Sheet 9 of 17



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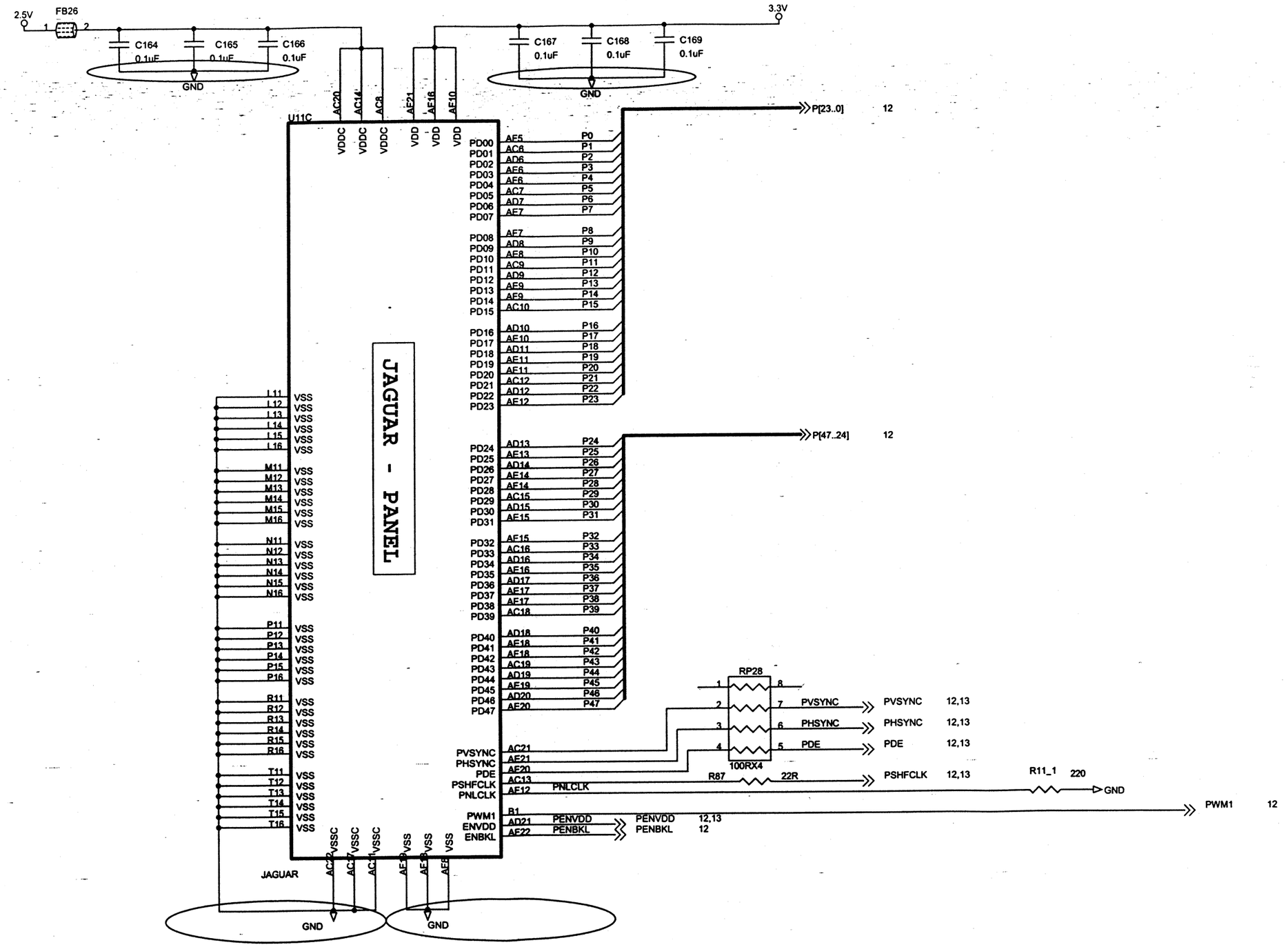
Date:	Sheet 10 of 17	



Title	JAG PANEL INTERFACE	
Size	Document Number	Rev
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P[23..0]

P[47..24]

RP17 100RX4: P0 P1 P2 P3 → FP0 FP1 FP2 FP3

RP19 100RX4: P4 P5 P6 P7 → FP4 FP5 FP6 FP7

RP21 100RX4: P8 P9 P10 P11 → FP8 FP9 FP10 FP11

RP23 100RX4: P12 P13 P14 P15 → FP12 FP13 FP14 FP15

RP25 100RX4: P16 P17 P18 P19 → FP16 FP17 FP18 FP19

RP27 100RX4: P20 P21 P22 P23 → FP20 FP21 FP22 FP23

FP[23..0] >> FP[23..0] 13

RP16 100RX4: P24 P25 P27 P26 → FP24 FP25 FP27 FP26

RP18 100RX4: P28 P31 P29 P30 → FP28 FP31 FP29 FP30

RP20 100RX4: P32 P33 P34 P35 → FP32 FP33 FP34 FP35

RP22 100RX4: P36 P37 P38 P39 → FP36 FP37 FP38 FP39

RP24 100RX4: P40 P41 P42 P43 → FP40 FP41 FP42 FP43

RP26 100RX4: P44 P45 P46 P47 → FP44 FP45 FP46 FP47

FP[47..24] >> FP[47..24] 13

FP[23..0]

P4: FP23 FP21 FP18 FP17 FP15 FP13 FP10 FP8 FP7 FP5 FP2 FP0 FVSYNC FDE → FP22 FP20 FP19 FP16 FP14 FP12 FP11 FP9 FP6 FP4 FP3 FP1 FHSYNC FSHFCLK

GND — open or CON 20X2 — GND — VDDSAFE

FP[47..24]

P5: FP47 FP45 FP42 FP40 FP39 FP37 FP34 FP32 FP30 FP31 FP27 FP24 VDDSAFE → FP46 FP44 FP43 FP41 FP38 FP36 FP35 FP33 FP29 FP28 FP26 FP25 VDDSAFE

GND — open — GND

OUTPUT IS 24BIT :
P0-P7(B0-B7)
P8-P15(G0-G7)
P16-P23(R0-R7)
OUTPUT IS 48BIT :
P0-P7(FB0-FB7)
P8-P15(SB0-SB7)
P16-P23(FG0-FG7)
P24-P31(SG0-SG7)
P32-P39(FR0-FR7)
P40-P47(SR0-SR7)

11,13 PSHFCLK >> FSHFCLK >> FSHFCLK 11,13
11,13 PVSYNC >> FVSYNC >> FVSYNC 11,13
11,13 PHSYNC >> FHSYNC >> FHSYNC 11,13
11,13 PDE >> FDE >> FDE 11,13

C422 0.1uF, C423 0.1uF, +5V, R78 6.8k, R79 4.7K, C172 0.1uF, R77 0, Q3 DTC144EKA, PWM1

C170 10uF/35V, C171 0.1uF, +5V, open Q7, R221 open, 3.3V, R69 open, INV-12V

BACKLİGHT: +15V, GND, BRT, NC, ON/OFF, GND, +15V — JST-S7B-PH-K — R222 R — R80 47k

R12_1 0 or open 3.3V
R12_2 0 or open 5V
R12_3 0 or open INV-12V

PNLPWR, SON-d, U14A, Si9953DY, G, S, D, VDDSW

F2 FUSE-1A, VDDSAFE, C173 0.1uF, C180 open, C468 47uF/16V, C475 0.1uF, C469 0.1uF, C476 0.1uF, VDDSAFE 13

PENBKL, R82 5.1K open, +5V, OR8 0, OR9 open, ON/OFF, R230 10k, Q5 DTC144EKA open, PENVDD, INV-12V, Q4 DTC144EKA, C495, C496 0.1uF 0.1uF, C493 0.1uF, C494 0.1uF

11,13 PENVDD

DTC144EKA FOOTPRINT: C 3, B 1, E 2

Use Pin Compatible Si9934DY for 3.3V Panels

Title	PANEL INTERFACE	
Size Custom<Doc>	Document Number	Rev 0.6
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12 VDDSAFE
C222 47uF/16V
C223 10pF
C470 10uF/35V
GND

NOTE:C470 For 23inch
C222 for 15inch

• • • • • PCB• • • • • • • 15"• 17• pannel datasheet
• • •••• • • •••••26• • • • • • • • •

CN1
CON20
20 VDD
19 VDD
18 GND
17 GND
16 RXIN0-
15 RXIN0+
14 GND
13 RXIN1-
12 RXIN1+
11 GND
10 RXIN2-
9 RXIN2+
8 GND
7 RXCLKIN-
6 RXCLKIN+
5 GND
4 RXIN3-
3 RXIN3+
2 GND
1 GND
RxO0- / RxO0+ / RxO1- / RxO1+ / RxO2- / RxO2+ / RxOC- / RxOC+ / RxO3- / RxO3+

GND3 CONNECT TO LCD'S METAL FRAME

3.3V
FB28 BEAD POWER
PLLVCC
C183 0.1uF
C184 22uF
C185 220PF
GND

3.3V
FB29 BEAD POWER
LVDSVCC
C189 22uF
C190 220PF
C191 0.01UF
GND

12 FP[47..24]
FP31 FP30 FP29 FP28 FP27 FP26 FP25 FP24
FP39 FP38 FP37 FP36 FP35 FP34 FP33 FP32
FP47 FP46 FP45 FP44 FP43 FP42 FP41 FP40

3.3V
C174 22UF
C176 0.1uF
C177 0.01uF
C178 0.01uF
GND

U15
SN75LVDS83
VCC 28 9 1
D15 15
D18 19
D19 20
D20 22
D21 23
D22 24
D16 16
D17 18
D7 4
D8 6
D9 7
D12 11
D13 12
D14 14
D10 8
D11 10
D0 51
D1 52
D2 54
D3 55
D4 56
D6 3
D27 50
D5 2
D24 27
D25 28
D26 30
D23 25
CLKIN 31
CLKSEL 17
GND 5 13 21 53 29
/SHTDN 32
PLLGND 35
PLLGND 33
PLLVCC 34
LVDSVCC 44
Y0M 48
Y0P 47
Y1M 46
Y1P 45
Y2M 42
Y2P 41
Y3M 38
Y3P 37
CLKOUTM 40
CLKOUTP 39
LVDSGND 49 43 36
PLLVCC
LVDSVCC
RxO0-
RxO0+
RxO1-
RxO1+
RxO2-
RxO2+
RxO3-
RxO3+
RxOC-
RxOC+
GND

11,12 PENVDD
R105 47
R96 47
3.3V
R97 open
GND

0 for 15-23 inch pannel,open for 30inch pannel

11,12 PHSYNC
11,12 PVSYNC
11,12 PDE
11,12 PSHFCLK
R185 0 or open
R186 0 or open
R188 0 or open
R189 0 or open
PHS
PVS
PENAB
PCLK

C193 C194 C195 C196 open
GND

47 R83 PENVDD 11,12

12 FP[23..0]
FP5 FP4 FP3 FP2 FP1 FP0 FP7 FP6
FP13 FP12 FP11 FP10 FP9 FP8 FP15 FP14
FP21 FP20 FP19 FP18 FP17 FP16 FP23 FP22

3.3V
C13_5 22UF/16V
C13_6 1uF
C13_7 0.01uF
C13_8 0.01uF
U13_1
GND

• • • • • PCB• • • • • • 30"pannel datasheet
• • ;••• • • • pin to pin(• • • 1••••1••• • • • •) • • •

3.3V
FB61 BEAD POWER
PLLVCC
C464 0.1uF
C465 22uF/16v
C466 220PF
GND

3.3V
FB60 BEAD POWER
LVDSVCC
C463 22uF/16v
C461 220PF
C462 0.01UF
GND

CN14
CN_LG30
GND 20
GND 19
RA- 18
RA+ 17
RB- 16
RB+ 15
RC- 14
RC+ 13
RCLK- 12
RCLK+ 11
RD- 10
RD+ 9
GND 8
GND 7
VCC 6
VCC 5
VCC 4
VCC 3
VCC 2
GND 1
GND
RxO0- 1 / RxO0+ 1 / RxO1- 1 / RxO1+ 1 / RxO2- 1 / RxO2+ 1 / RxOC- 1 / RxOC+ 1 / RxO3- 1 / RxO3+ 1

12 VDDSAFE
C441 47uF/16V
C442 10pF
GND

GND3 CONNECT TO LCD'S METAL FRAME

11,12 PENVDD
R182 47
R183 47
3.3V
R184 open
GND

open for 15-23 inch pannel,0 for 30inch pannel

11,12 PHSYNC
11,12 PVSYNC
11,12 PDE
11,12 PSHFCLK
R13_5 0 or open
R13_6 0 or open
R13_7 0 or open
R13_8 0 or open
PHS1
PVS1
PENAB1
PCLK1

C443 C444 C445 C446 open
GND

47 R187 PENVDD 11,12

Title: LVDS PANEL
Size: C
Document Number: <Doc>
Rev: <RevCode>
Date:
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JRD# >> JRD# 10
JWRR# >> JWRR# 10
JTEST >> JTEST 10

RESET

+3.3V_MCU, R103 47K, C224 0.1UF, C225 1UF, SW1, PB, GND

U27 PBRST_ RST GND VCC RST-
RESET, GND, RESET# 10
DS1819C for 3.3V DS1814C for 5V

DEBUG PORT

P8 JST-S5B-PH-K: 3.3V_MCU, RXD, TXD, EA#, GND

U19 80C32PLCC

X1 VCC X2
P3.0/RXD 11 RXD
P3.1/TXD 13 TXD
P3.2/INT0# 14 INTR_ASM# 10
P3.3/INT1# 15 INTR_Main# 2
P3.4/T0 16 JTEST
P3.5/T1 17 RST_2200# 3 RES_2200#
RD#/P3.7 19 MCRD#
WR#/P3.6 18 MCWR#
ALE/P 33
PSEN 32
VCC=44
GND=22

0 for Germany,open for China
R104 0 or OPEN
P1.0 2 MC_SCLK 2,3,10
P1.1 3 MC_DATA 2,3,10
P1.2 4 REST 2 REST_Analog
P1.3 5
P1.4 6 MCA16
P1.5 7 MCA17
P1.6 8 SCL2 2
P1.7 9 SDA2 2
A8/P2.0 24 MCA8
A9/P2.1 25 MCA9
A10/P2.2 26 MCA10
A11/P2.3 27 MCA11
A12/P2.4 28 MCA12
A13/P2.5 29 MCA13
A14/P2.6 30 MCA14
A15/P2.7 31 MCA15
AD0/P0.0 43 MCAD0
AD1/P0.1 42 MCAD1
AD2/P0.2 41 MCAD2
AD3/P0.3 40 MCAD3
AD4/P0.4 39 MCAD4
AD5/P0.5 38 MCAD5
AD6/P0.6 37 MCAD6
AD7/P0.7 36 MCAD7
EA/VP 35 EA#
RESET 10 RESET
GND 22
80C32-PLCC44

Y2 27MHZ, C198 12pF, C199 12pF, GND
R202 0 or open, R203 0 or open, R204 0 or open, 3.3V, +3.3V_MCU
C213 0.1uF, GND

U20A / U20B 74lv139

+3.3V_MCU, MCA14, MCA15, MCRD#, MCWR#, GND
U20A: Y0 Y1 Y2 Y3
U20B: Y0 Y1 Y2 Y3 JWRR#
74lv139

EA#, D13 BAV70, JRD#, R219 open, R220 10k, GND

U21 SN74LV373A

+3.3V_MCU, MCAD0..MCAD7, MCALE 11, GND
MCA0 MCA1 MCA2 MCA3 MCA4 MCA5 MCA6 MCA7

U30 / U31 AM27C020/SO

VCC, GND
MCA0 MCA1 MCA2 MCA3 MCA4 MCA5 MCA6 MCA7 MCA8 MCA9 MCA10 MCA11 MCA12 MCA13 MCA14 MCA15 MCA16 MCA17
D0 D1 D2 D3 D4 D5 D6 D7 MCAD0 MCAD1 MCAD2 MCAD3 MCAD4 MCAD5 MCAD6 MCAD7
CE OE PGM VPP
PSEN# FLASHWE#

C453 0.1u, C452 0.1u, GND

MCA[15..0]
MCALE 10

OR10 OPEN, OR11 1K, OR12 OPEN, R95 10K +3.3V_MCU

CONFIGURATION DATA

U22 SEEPROM AT24C16: A0 A1 A2 GND VCC TEST SCL SDA
MC_SCLK, MC_DATA
C449 0.1u, C450 0.1u, C451 0.1u

U23 W27C020/SST29E020

MCAD0..MCAD7
A0..A16: MCA0 MCA1 MCA2 MCA3 MCA4 MCA5 MCA6 MCA7 MCA8 MCA9 MCA10 MCA11 MCA12 MCA13 MCA14 MCA15 MCA16
OE PSEN# 24
WE FLASHWE# 31
CE 22
NC GND
SOCKET-DIP32
29EE010-DIP32

MCA8 >> MCA8 10
MCA9 >> MCA9 10

BIOS

MCAD[7..0] 10

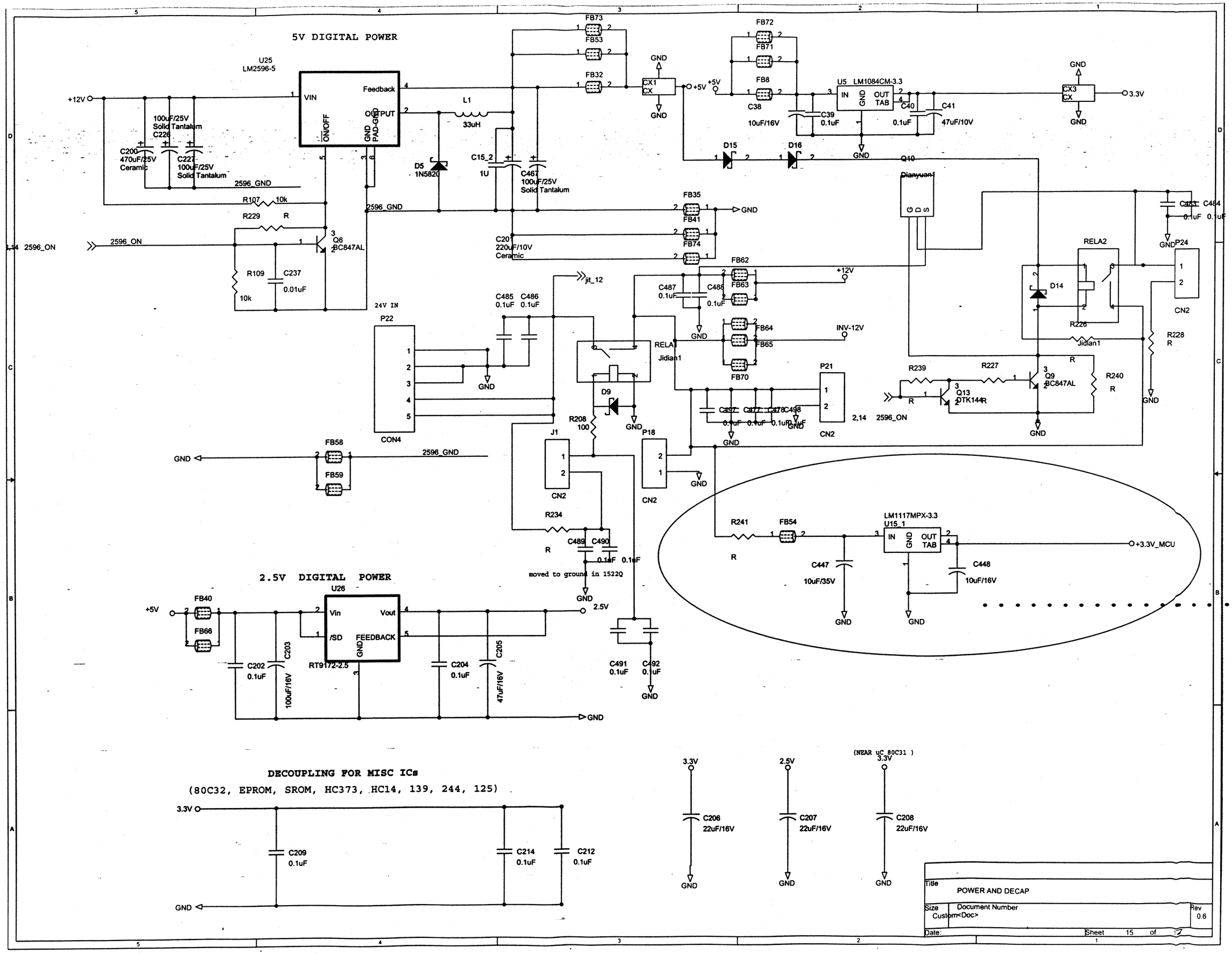
C211 0.1uF, C215 0.1uF, GND

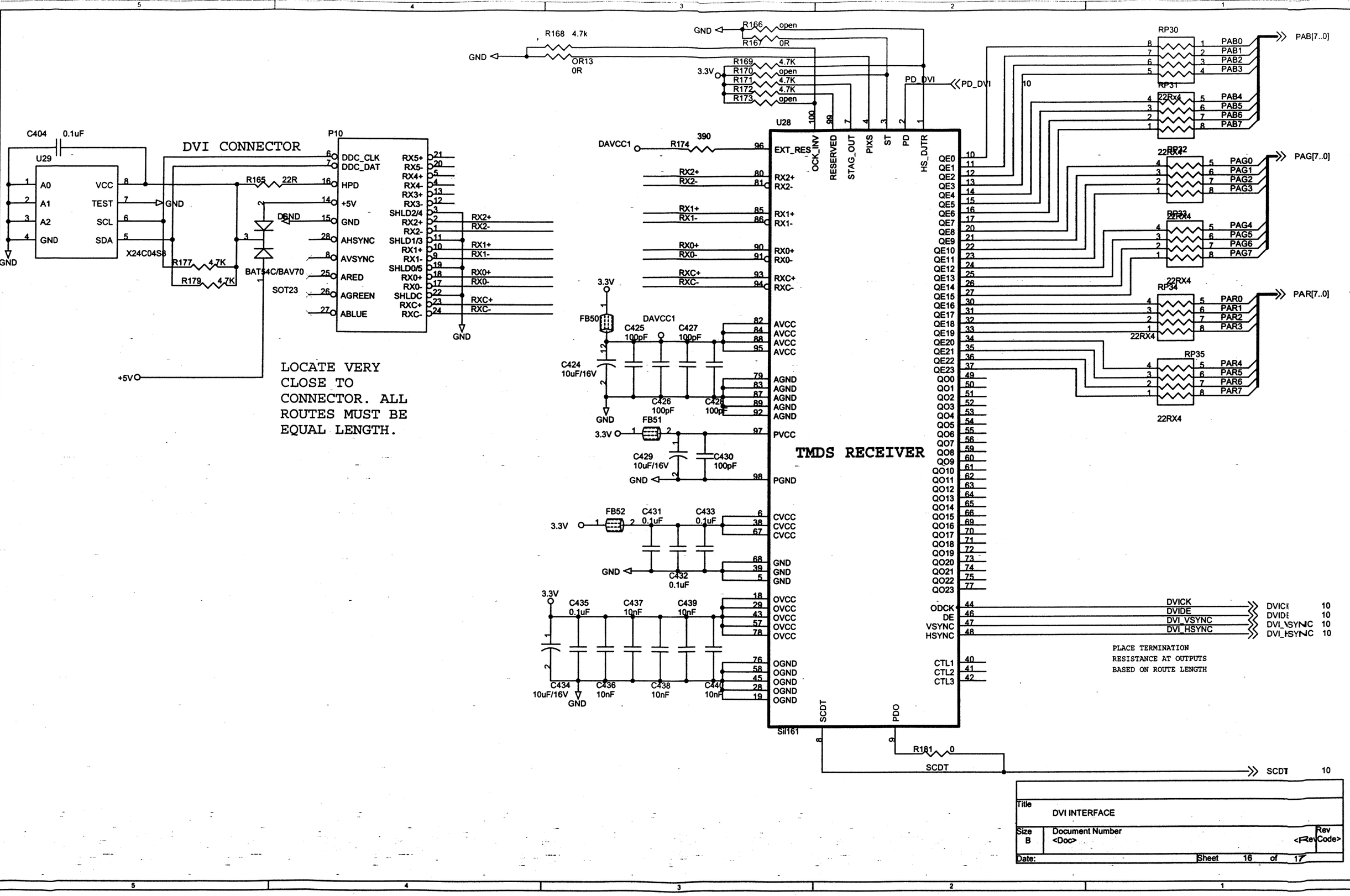
R205 4.7k, D8 BAV70, R206 1k, Q8 BC847AL, R207 3k3, Q11 BC847AL, R235 1k, EA#, FLASHWE#, MCWR#

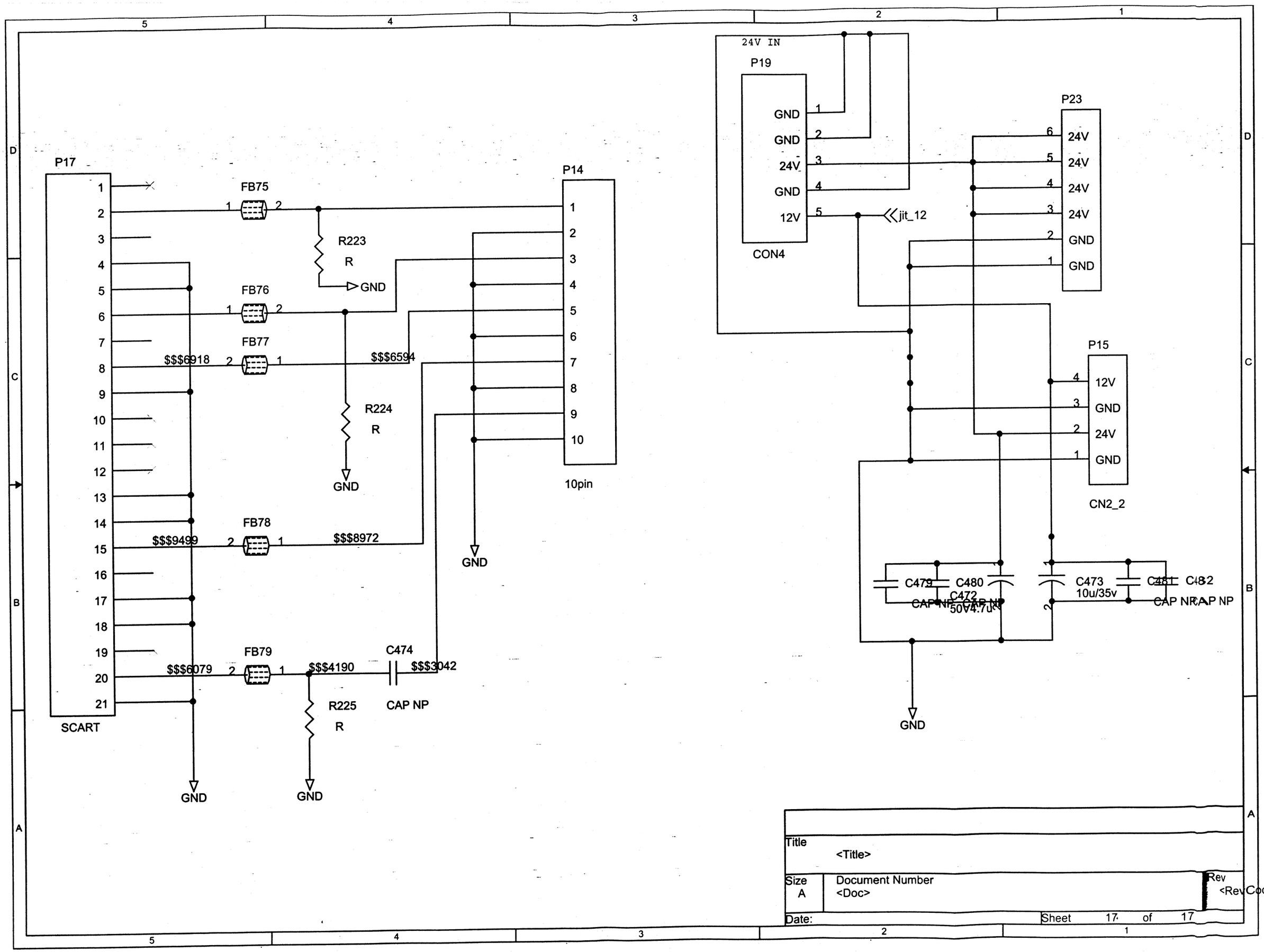
R237 1K, Q12 BC847AL, R238 1K, light, 2596_ON 2,15

H1 +3.3V_MCU, H2 MCA7, H3 MCAD7, H4 MCAD6, H5 MCA6
H6 MCA5, H7 MCAD5, H8 MCAD4, H9 MCA4, H10 MCALE

Title	MICROCONTROLLER 80C32	
Size A3	Document Number <Doc>	Rev 0.6
Date:	Sheet 14 of 7	


5V DIGITAL POWER
U25
LM2596-5
+12V
VIN
Feedback
OUTPUT
ON/OFF
GND PAD-GND
100uF/25V
Solid Tantalum
C226
C200
470uF/25V
Ceramic
C227
100uF/25V
Solid Tantalum
2596_GND
R107 10k
R229 R
2596_ON
Q6
BC847AL
R109
10k
C237
0.01uF
L1
33uH
D5
1N5820
C15_2
1U
C467
100uF/25V
Solid Tantalum
FB73
FB53
FB32
GND
CX1
CX
+5V
FB72
FB71
FB8
C38
10uF/16V
U5 LM1084CM-3.3
IN GND OUT TAB
C39
0.1uF
C40
0.1uF
C41
47uF/10V
CX3
3.3V
D15
D16
Q10
Dianyuan1
FB35
FB41
FB74
C201
220uF/10V
Ceramic
C483 C484
0.1uF 0.1uF
P24
CN2
RELA2
D14
R226
Jidian1
R228
R
FB62
FB63
C487
0.1uF
C488
0.1uF
+12V
FB64
FB65
FB70
INV-12V
jit_12
C485 C486
0.1uF 0.1uF
24V IN
P22
CON4
RELA1
Jidian1
D9
R208
100
P21
CN2
2,14 2596_ON
R239
R227
Q9
BC847AL
Q13
DTK144R
R240
R
C497 C477 C478 C498
0.1uF 0.1uF 0.1uF 0.1uF
FB58
FB59
J1
P18
R234
R
C489 C490
0.1uF 0.1uF
moved to ground in 1522Q
R241
FB54
LM1117MPX-3.3
U15_1
C447
10uF/35V
C448
10uF/16V
+3.3V_MCU
2.5V DIGITAL POWER
U26
+5V
FB40
FB66
Vin
Vout
/SD
FEEDBACK
GND
RT9172-2.5
C202
0.1uF
C203
100uF/16V
C204
0.1uF
C205
47uF/16V
2.5V
C491
0.1uF
C492
0.1uF
DECOUPLING FOR MISC ICs
(80C32, EPROM, SROM, HC373, HC14, 139, 244, 125)
3.3V
C209
0.1uF
C214
0.1uF
C212
0.1uF
C206
22uF/16V
C207
22uF/16V
(NEAR uC 80C31)
C208
22uF/16V
Title
POWER AND DECAP
Size
Custom<Doc>
Document Number
Rev
0.6
Date:
Sheet 15 of 7


DVI CONNECTOR
P10
C404 0.1uF
U29
X24C04S8
R165 22R
R177 4.7K
R179 4.7K
BAT54C/BAV70
SOT23
DGND
GND
+5V
DDC_CLK
DDC_DAT
HPD
AHSYNC
AVSYNC
ARED
AGREEN
ABLUE
RX5+
RX5-
RX4+
RX4-
RX3+
RX3-
RX2+
RX2-
RX1+
RX1-
RX0+
RX0-
RXC+
RXC-
LOCATE VERY CLOSE TO CONNECTOR. ALL ROUTES MUST BE EQUAL LENGTH.
R168 4.7k
OR13 0R
R166 open
R167 0R
R169 4.7K
R170 open
R171 4.7K
R172 4.7K
R173 open
PD_DVI
U28
R174 390
DAVCC1
EXT_RES
OCK_INV
RESERVED
STAG_OUT
PIXS
ST
PD
HS_DJTR
FB50
FB51
FB52
C425 100pF
C427 100pF
C424 10uF/16V
C426 100pF
C428 100pF
C429 10uF/16V
C430 100pF
C431 0.1uF
C433 0.1uF
C432 0.1uF
C435 0.1uF
C437 10nF
C439 10nF
C434 10uF/16V
C436 10nF
C438 10nF
C440 10nF
AVCC
AGND
PVCC
PGND
CVCC
GND
OVCC
OGND
TMDS RECEIVER
Sil161
SCDT
PDO
R181 0
RP30
RP31
RP22
RP33
RP34
RP35
22RX4
PAB[7..0]
PAG[7..0]
PAR[7..0]
QE0
QE1
QE2
QE3
QE4
QE5
QE6
QE7
QE8
QE9
QE10
QE11
QE12
QE13
QE14
QE15
QE16
QE17
QE18
QE19
QE20
QE21
QE22
QE23
QO0
QO1
QO2
QO3
QO4
QO5
QO6
QO7
QO8
QO9
QO10
QO11
QO12
QO13
QO14
QO15
QO16
QO17
QO18
QO19
QO20
QO21
QO22
QO23
ODCK
DE
VSYNC
HSYNC
CTL1
CTL2
CTL3
DVICK
DVIDE
DVI_VSYNC
DVI_HSYNC
PLACE TERMINATION RESISTANCE AT OUTPUTS BASED ON ROUTE LENGTH
Title
DVI INTERFACE
Size B
Document Number
<Doc>
Rev
<RevCode>
Date:
Sheet 16 of 17


P17
SCART
FB75
FB76
FB77
FB78
FB79
R223
R
R224
R
R225
R
C474
CAP NP
$$$6918
$$$6594
$$$9499
$$$8972
$$$6079
$$$4190
$$$3042
GND
P14
10pin
24V IN
P19
CON4
jit_12
P23
P15
CN2_2
C479
C480
C472
50V4.7u
C473
10u/35v
C481
C482
CAP NP
Title
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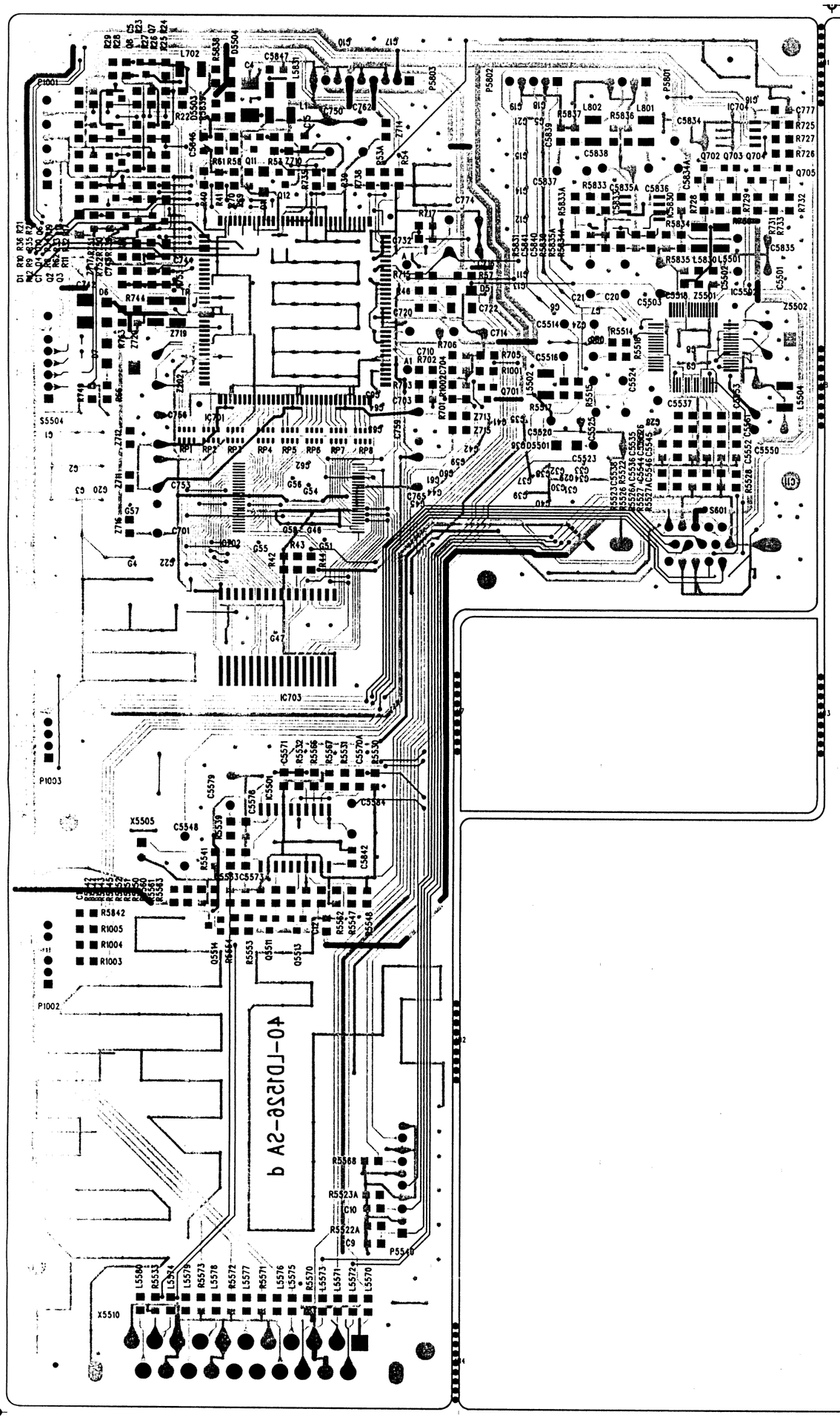
Size
A
Document Number
<Doc>
Rev
<RevCode>
Date:
Sheet 17 of 17



TCL King Electronic Co.Ltd	
TITLE: 40-LD1526-SA d	VERSION:
COMPONENT SIDE (1)	DATE: 08-11-2003

SCHNEIDER ELECTRONICS GMBH-GERMANY

8. EXPLODE VIEW DIAGRAM